

Secure residual current protection even for unknown installations

- » Residual current circuit-breakers
- » RCCBs with overcurrent protection
- » Circuit-breakers with residual current trip
- » Modular residual current devices
- » Residual current monitoring devices
- » Miniature circuit-breakers
- » Load disconnectors, Installation relays, Pulse relays
- » Twilight-, Float and Pressure switches



Product Information 2016



Product Information 2016

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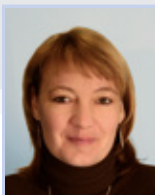


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Comparison of AC-DC sensitive residual current circuit-breakers

Many standards, regulations and directives demand the provision of a Type B AC-DC sensitive residual current circuit-breaker (RCCB). Wherever three-phase electronic equipment is connected to mains without electrical isolation, AC-DC sensitive residual current circuit-breakers must be employed. There are, however, also cases in the 230 V mains net where they are applicable, e. g. photovoltaic (solar energy) installations with inverters lacking a transformer.

Pumping stations, air conditioning and ventilation facilities, escalators, welding equipment, medical-technical equipment, UPS and photovoltaic installations, agricultural and work premises with potential fire hazard, lecture rooms with experimentation facilities, exhibitors' mobile shops. These are a few examples where – because mainly pulsed equipment is employed for the power control in such installations (e. g. frequency converters) – the use of residual current circuit-breakers is imperative. To select the correct RCCB for each individual application, we offer you three different tripping characteristics within the area of AC-DC sensitive RCCBs.

STANDARDS AND DIRECTIVES FOR EMPLOYING TYPE B RESIDUAL CURRENT CIRCUIT-BREAKERS

VDE 0100-530: Erection of low voltage installations: selection and installation of electrical equipment, switch and control devices

VDE 0100-482: Fire protection in cases of special risks and dangers

VDE 0100-704: Requirements for work premises, rooms and special types of installations – construction sites

VDE 0100-712: Requirements for work premises, rooms and special types of installations; solar energy, photovoltaic power supply systems (new)

VDE 0100-723: Requirements for work premises, rooms and special types of installations: lecture rooms with experimentation facilities

BGI 608: Selection and operation of electrical installations and equipment on construction sites

GDV Publication (VdS 3501): Insulation protection in electrical installations with electronic equipment – RCD and frequency converters

VdS 3145: Photovoltaic installations – Technical Guidelines

NK Model range NK

The NK model range guarantees classic fire protection from 300 mA at frequencies up to 100 kHz and thereby substantially exceeds the requirements of the new Standard for Type B+ residual current circuit-breakers (RCCBs). It is thus the optimum protection for installations with residual currents at high frequencies. It is thus the optimum protection for installations with residual currents at high frequencies. These devices comply with DIN VDE 0664-400, E DIN VDE 0664-100 and IEC 62423 Ed. 2.

The most reliable fire protection with high frequencies. Ideal for work premises subject to fire hazard.

B+ Model Range B+

The B+ model range is based on the new VDE 0664-400 Standard. Compared to residual current circuit-breakers of the SK model range, these devices will trip when residual currents up to max. 20 kHz occur within an upper response limit of 420 mA. Thus, they offer a fire protection up to 20 kHz.

Fire protection for installations up to max. 20 kHz.

SK Model Range SK

In many electrical installations, such as e. g. in construction site power distributors, fire protection plays a secondary role. Here it is often the case that only fault protection and high availability of plant are demanded. Due to the lower response sensitivity at higher frequencies, there are few equipment-related unwanted tripping incidents. The devices in the SK model range conform to the Standard E DIN VDE 0664-100.

Protection for installations for which fire protection is not mandatory.

Informations concerning fire protection

In contrast to the Standard E DIN VDE 0664-100, in which tripping thresholds for residual currents up to max. 2 kHz are defined, the Standard VDE 0664-400 specifies an upper limit of 420 mA for the tripping thresholds of residual currents up to max. 20 kHz.

With this the Standard also satisfies the requirements of insurers (see also VdS 3501) in order to comply in most cases with a defined fire protection in respect of installations with electronic equipment such as e. g. frequency converters. RCCBs suitable for this purpose are with rated residual operating currents up to and including 300 mA.

Increasingly, electronic equipment is being employed which, in the event of a fault, could also generate residual currents with frequencies above 20 kHz, which latter are not taken into consideration in the new standard.

In addition, the harmonics of switching frequencies < 20 kHz are not completely covered. Yet in the meantime switching frequencies up to 50 kHz are being reached. If residual currents > 20 kHz are technically possible then, according to the VdS regulations, residual current circuit-breakers that also cover these higher frequencies have to be used – such as the devices in the NK range:

Our AC-DC sensitive residual current circuit-breakers in the NK model range, which have been in production since 2004, meet and substantially exceed the requirements of the DIN VDE 0664-400 for Type B+ RCCBs.

For example, the devices of the DFS 4 B NK range detect residual currents up to 100 kHz at an upper tripping limit of max. 300 mA across the whole tripping frequency range and thus fulfil the „classic fire protection“ role and even provide protection far above and beyond this.

HD series

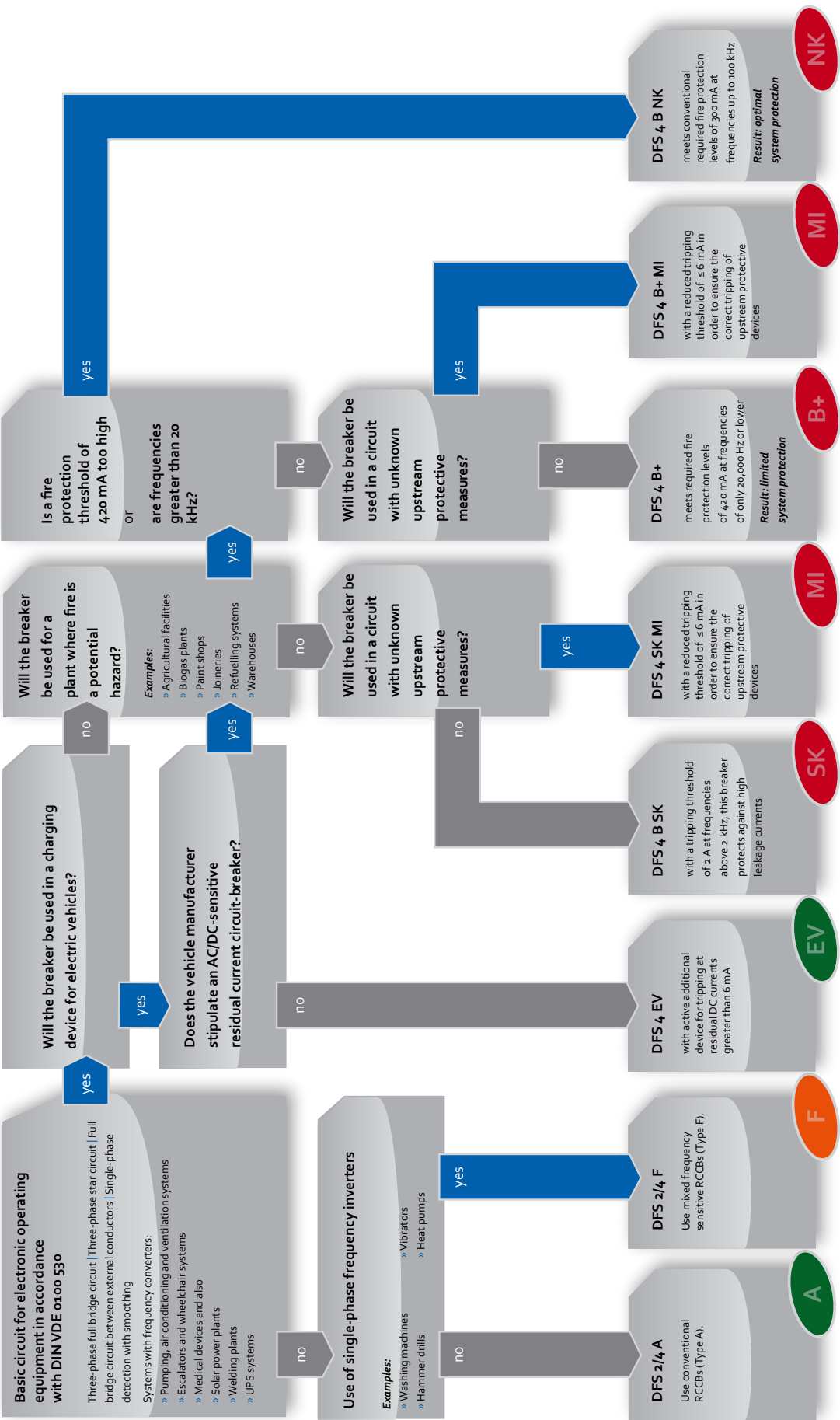
All DFS devices are available as HD (Heavy Duty) version. Thanks to their design these circuit-breakers are already specially protected against corrosion. HD devices are extremely resistant to temperature fluctuations and other adverse environmental conditions like noxious gases.

Neutral on right

In addition to the HD variant, all devices of the DFS 4 series are available with neutral terminal on the right. This matches the devices of Type A and F from 16 A to 125 A and devices of Type B/B+ from 16 A to 80 A.

Ordering: For HD devices, add the suffix „HD“ to the usual ordering number. For neutral on right, add the suffix „R“.

Guidelines for the selection of residual current circuit-breakers in relation to fire protection criteria



Note: The rated residual current is not subject to this illustration – it has to be chosen according to the protection purpose.

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 2 A, two-pole



pulsating AC/DC-sensitive type A

016 A

mod.	pack.	widths	units	Article No.	EAN (4014712...)
DFS 2 016-2/0,01-A					
			2 1/40	09112601	069237
DFS 2 016-2/0,03-A			2 1/40	09114601	069244
DFS 2 016-2/0,10-A			2 1/40	09115601	069251
DFS 2 016-2/0,30-A			2 1/40	09116601	069268
DFS 2 016-2/0,50-A			2 1/40	09117601	069275

025 A

DFS 2 025-2/0,01-A			2 1/40	09122601	069282
DFS 2 025-2/0,03-A			2 1/40	09124601	069299
DFS 2 025-2/0,10-A			2 1/40	09125601	069305
DFS 2 025-2/0,30-A			2 1/40	09126601	069312
DFS 2 025-2/0,50-A			2 1/40	09127601	069329

040 A

DFS 2 040-2/0,01-A			2 1/40	09132601	069336
DFS 2 040-2/0,03-A			2 1/40	09134601	069343
DFS 2 040-2/0,10-A			2 1/40	09135601	069350
DFS 2 040-2/0,30-A			2 1/40	09136601	069367
DFS 2 040-2/0,50-A			2 1/40	09137601	069374

063 A

DFS 2 063-2/0,03-A			2 1/40	09144601	069381
DFS 2 063-2/0,10-A			2 1/40	09145601	069398
DFS 2 063-2/0,30-A			2 1/40	09146601	069404
DFS 2 063-2/0,50-A			2 1/40	09147601	069411

080 A

DFS 2 080-2/0,03-A			2 1/40	09154601	069428
DFS 2 080-2/0,10-A			2 1/40	09155601	069435
DFS 2 080-2/0,30-A			2 1/40	09156601	069442
DFS 2 080-2/0,50-A			2 1/40	09157601	069459

100 A

DFS 2 100-2/0,03-A			2 1/40	09164601	069466
DFS 2 100-2/0,10-A			2 1/40	09165601	069473
DFS 2 100-2/0,30-A			2 1/40	09166601	069480
DFS 2 100-2/0,50-A			2 1/40	09167601	069497

125 A

DFS 2 125-2/0,03-A			2 1/40	09174601	086746
DFS 2 125-2/0,10-A			2 1/40	09175601	086784
DFS 2 125-2/0,30-A			2 1/40	09176601	086821
DFS 2 125-2/0,50-A			2 1/40	09177601	086869

All devices are also available in HD design (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 4 A, four-pole



pulsating AC/DC-sensitive type A

016 A

DFS 4 016-4/0,01-A	$I_{\Delta n} = 0.01 \text{ A}$	4	1/20	09112901	089921
DFS 4 016-4/0,03-A	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09114901	089945

025 A

DFS 4 025-4/0,01-A	$I_{\Delta n} = 0.01 \text{ A}$	4	1/20	09122901	089969
DFS 4 025-4/0,03-A	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124901	089983
DFS 4 025-4/0,10-A	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09125901	090002
DFS 4 025-4/0,30-A	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09126901	199415
DFS 4 025-4/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09127901	090040

040 A

DFS 4 040-4/0,03-A	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134901	090064
DFS 4 040-4/0,10-A	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135901	090101
DFS 4 040-4/0,30-A	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136901	091221
DFS 4 040-4/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137901	090125

063 A

DFS 4 063-4/0,03-A	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144901	090149
DFS 4 063-4/0,10-A	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145901	090163
DFS 4 063-4/0,30-A	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146901	090187
DFS 4 063-4/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09147901	090200

080 A

DFS 4 080-4/0,03-A	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09154901	091238
DFS 4 080-4/0,10-A	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155901	090262
DFS 4 080-4/0,30-A	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156901	090248
DFS 4 080-4/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09157901	090286

100 A

DFS 4 100-4/0,03-A	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09164901	090309
DFS 4 100-4/0,10-A	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165901	090323
DFS 4 100-4/0,30-A	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166901	090347
DFS 4 100-4/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09167901	090361

125 A

DFS 4 125-4/0,03-A	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09174901	090385
DFS 4 125-4/0,10-A	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175901	090408
DFS 4 125-4/0,30-A	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176901	090422
DFS 4 125-4/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09177901	090446

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A

Residual current circuit-breakers DFS 2 A S, two-pole 10000

pulsating AC/DC-sensitive type A, selective

040 A

DFS 2 040-2/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09135605	131057
DFS 2 040-2/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09136605	131071
DFS 2 040-2/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09137605	131095

063 A

DFS 2 063-2/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09145605	116306
DFS 2 063-2/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09146605	116269
DFS 2 063-2/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09147605	116283

080 A

DFS 2 080-2/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09155605	131170
DFS 2 080-2/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09156605	131194
DFS 2 080-2/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09157605	131217

100 A

DFS 2 100-2/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09165605	131231
DFS 2 100-2/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09166605	135048
DFS 2 100-2/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09167605	131279

125 A

DFS 2 125-2/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09175605	131293
DFS 2 125-2/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09176605	132771
DFS 2 125-2/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09177605	131330

All devices are also available in HD design (see info pages).

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A

Residual current circuit-breakers DFS 4 A S, four-pole 10000

pulsating AC/DC-sensitive type A, selective

040 A

DFS 4 040-4/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135905	131651
DFS 4 040-4/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136905	091184
DFS 4 040-4/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137905	091207
DFS 4 040-4/1,00-A S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09138905	157675

063 A

DFS 4 063-4/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145905	131675
DFS 4 063-4/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146905	091269
DFS 4 063-4/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09147905	091283
DFS 4 063-4/1,00-A S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09148905	157699

080 A

DFS 4 080-4/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155905	131699
DFS 4 080-4/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156905	091344
DFS 4 080-4/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09157905	091368
DFS 4 080-4/1,00-A S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09158905	091009

100 A

DFS 4 100-4/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165905	131712
DFS 4 100-4/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166905	091429
DFS 4 100-4/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09167905	091443
DFS 4 100-4/1,00-A S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09168905	091405

125 A

DFS 4 125-4/0,10-A S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175905	131736
DFS 4 125-4/0,30-A S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176905	091504
DFS 4 125-4/0,50-A S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09177905	091528
DFS 4 125-4/1,00-A S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09178905	091467

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 2 A KV, two-pole 10000 KV/G

pulsating AC/DC-sensitive type A, short-time delayed, lightning resistant

016 A

			mod. widths	pack. units	Article No.	EAN (4014712...)
DFS 2 016-2/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$		2	1/40	09114609	109568
DFS 2 016-2/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$		2	1/40	09115609	122659
DFS 2 016-2/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$		2	1/40	09116609	109582
DFS 2 016-2/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$		2	1/40	09117609	122673

025 A

DFS 2 025-2/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$		2	1/40	09124609	107670
DFS 2 025-2/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$		2	1/40	09125609	118980
DFS 2 025-2/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$		2	1/40	09126609	109612
DFS 2 025-2/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$		2	1/40	09127609	122697

040 A

DFS 2 040-2/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$		2	1/40	09134609	109636
DFS 2 040-2/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$		2	1/40	09135609	122710
DFS 2 040-2/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$		2	1/40	09136609	109650
DFS 2 040-2/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$		2	1/40	09137609	122734

063 A

DFS 2 063-2/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$		2	1/40	09144609	109674
DFS 2 063-2/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$		2	1/40	09145609	122758
DFS 2 063-2/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$		2	1/40	09146609	109698
DFS 2 063-2/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$		2	1/40	09147609	122772

080 A

DFS 2 080-2/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$		2	1/40	09154609	109711
DFS 2 080-2/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$		2	1/40	09155609	122796
DFS 2 080-2/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$		2	1/40	09156609	109735
DFS 2 080-2/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$		2	1/40	09157609	122819

100 A

DFS 2 100-2/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$		2	1/40	09164609	109759
DFS 2 100-2/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$		2	1/40	09165609	122833
DFS 2 100-2/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$		2	1/40	09166609	109773
DFS 2 100-2/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$		2	1/40	09167609	122857

125 A

DFS 2 125-2/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$		2	1/40	09174609	109797
DFS 2 125-2/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$		2	1/40	09175609	122871
DFS 2 125-2/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$		2	1/40	09176609	109810
DFS 2 125-2/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$		2	1/40	09177609	122895

increased surge current strength up to 3 kA, non-response lag time 10 ms. All devices are also available in HD design (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 4 A KV, four-pole

pulsating AC/DC-sensitive type A, short-time delayed, lightning resistant

016 A

DFS 4 016-4/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09114909	100619	
DFS 4 016-4/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09115909	122536	
DFS 4 016-4/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09116909	122550	
DFS 4 016-4/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09117909	122574	

025 A

DFS 4 025-4/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124909	100657	
DFS 4 025-4/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09125909	100671	
DFS 4 025-4/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09126909	100695	
DFS 4 025-4/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09127909	100718	

040 A

DFS 4 040-4/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134909	100732	
DFS 4 040-4/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135909	100756	
DFS 4 040-4/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136909	100770	
DFS 4 040-4/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137909	100794	

063 A

DFS 4 063-4/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144909	100817	
DFS 4 063-4/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145909	100831	
DFS 4 063-4/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146909	100855	
DFS 4 063-4/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09147909	100879	

080 A

DFS 4 080-4/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09154909	100893	
DFS 4 080-4/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155909	100916	
DFS 4 080-4/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156909	100930	
DFS 4 080-4/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09157909	100954	

100 A

DFS 4 100-4/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09164909	100978	
DFS 4 100-4/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165909	100992	
DFS 4 100-4/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166909	101012	
DFS 4 100-4/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09167909	101036	

125 A

DFS 4 125-4/0,03-A KV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09174909	101050	
DFS 4 125-4/0,10-A KV	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175909	101074	
DFS 4 125-4/0,30-A KV	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176909	101098	
DFS 4 125-4/0,50-A KV	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09177909	101111	

increased surge current strength up to 3 kA, non-response lag time 10 ms. All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A



Residual current circuit-breakers DFS 4 A EV, two- and four-pole

pulsating AC/DC-sensitive type A, with DC tripping threshold 6 mA, for electromobility

025 A

DFS 4 025-2/0,03-A EV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124018	215979	
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040 A

DFS 4 040-4/0,03-A EV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134818	215955	
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063 A

DFS 4 063-4/0,03-A EV	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144818	220119	
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All devices are also available in HD design (see info pages)./All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 2 A FT, two-pole

pulsating AC/DC-sensitive type A, with remote-tripping function



mod. pack.
widths units

Article No.

EAN
(4014712...)

016 A

DFS 2 016-2/0,01-A FT	$I_{\Delta n} = 0.01 \text{ A}$	2.5	1	09112621	146037
DFS 2 016-2/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	2.5	1	09114621	146051
DFS 2 016-2/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	2.5	1	09115621	146075
DFS 2 016-2/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	2.5	1	09116621	146099
DFS 2 016-2/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	2.5	1	09117621	146112

025 A

DFS 2 025-2/0,01-A FT	$I_{\Delta n} = 0.01 \text{ A}$	2.5	1	09122621	121539
DFS 2 025-2/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	2.5	1	09124621	146136
DFS 2 025-2/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	2.5	1	09125621	146150
DFS 2 025-2/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	2.5	1	09126621	146174
DFS 2 025-2/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	2.5	1	09127621	146198

040 A

DFS 2 040-2/0,01-A FT	$I_{\Delta n} = 0.01 \text{ A}$	2.5	1	09132621	146211
DFS 2 040-2/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	2.5	1	09134621	121584
DFS 2 040-2/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	2.5	1	09135621	146235
DFS 2 040-2/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	2.5	1	09136621	146259
DFS 2 040-2/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	2.5	1	09137621	146273

063 A

DFS 2 063-2/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	2.5	1	09144621	146297
DFS 2 063-2/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	2.5	1	09145621	146310
DFS 2 063-2/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	2.5	1	09146621	146334
DFS 2 063-2/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	2.5	1	09147621	146358

080 A

DFS 2 080-2/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	2.5	1	09154621	146372
DFS 2 080-2/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	2.5	1	09155621	146396
DFS 2 080-2/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	2.5	1	09156621	146419
DFS 2 080-2/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	2.5	1	09157621	146433

100 A

DFS 2 100-2/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	2.5	1	09164621	146457
DFS 2 100-2/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	2.5	1	09165621	146471
DFS 2 100-2/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	2.5	1	09166621	146495
DFS 2 100-2/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	2.5	1	09167621	146518

125 A

DFS 2 125-2/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	2.5	1	09174621	146532
DFS 2 125-2/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	2.5	1	09175621	146556
DFS 2 125-2/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	2.5	1	09176621	146570
DFS 2 125-2/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	2.5	1	09177621	146594

In the FT design, the connections of the internal test key are additionally wired to two terminals. This allows the option of activating the circuit-breaker test device using external switching contacts. All devices are also available in HD design.

Accessories: WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 4 A FT, four-pole



pulsating AC/DC-sensitive type A, with remote-tripping function

016 A

DFS 4 016-4/0,01-A FT	$I_{\Delta n} = 0.01 \text{ A}$	4.5	1	09112921	146617
DFS 4 016-4/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	4.5	1	09114921	146631

025 A

DFS 4 025-4/0,01-A FT	$I_{\Delta n} = 0.01 \text{ A}$	4.5	1	09122921	146655
DFS 4 025-4/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	4.5	1	09124921	134867
DFS 4 025-4/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	4.5	1	09125921	146679
DFS 4 025-4/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	4.5	1	09126921	146693
DFS 4 025-4/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	4.5	1	09127921	146716

040 A

DFS 4 040-4/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	4.5	1	09134921	121638
DFS 4 040-4/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	4.5	1	09135921	146730
DFS 4 040-4/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	4.5	1	09136921	146754
DFS 4 040-4/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	4.5	1	09137921	146778

063 A

DFS 4 063-4/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	4.5	1	09144921	118973
DFS 4 063-4/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	4.5	1	09145921	146808
DFS 4 063-4/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	4.5	1	09146921	146822
DFS 4 063-4/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	4.5	1	09147921	146846

080 A

DFS 4 080-4/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	4.5	1	09154921	106888
DFS 4 080-4/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	4.5	1	09155921	146877
DFS 4 080-4/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	4.5	1	09156921	146891
DFS 4 080-4/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	4.5	1	09157921	146914

100 A

DFS 4 100-4/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	4.5	1	09164921	146938
DFS 4 100-4/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	4.5	1	09165921	146952
DFS 4 100-4/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	4.5	1	09166921	146976
DFS 4 100-4/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	4.5	1	09167921	146990

125 A

DFS 4 125-4/0,03-A FT	$I_{\Delta n} = 0.03 \text{ A}$	4.5	1	09174921	147010
DFS 4 125-4/0,10-A FT	$I_{\Delta n} = 0.10 \text{ A}$	4.5	1	09175921	147034
DFS 4 125-4/0,30-A FT	$I_{\Delta n} = 0.30 \text{ A}$	4.5	1	09176921	147058
DFS 4 125-4/0,50-A FT	$I_{\Delta n} = 0.50 \text{ A}$	4.5	1	09177921	147072

In the FT design, the connections of the internal test key are additionally wired to two terminals. This allows the option of activating the circuit-breaker test device using external switching contacts. All devices are also available in HD design and with right-hand neutral conductor.

Accessories: WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 4 A V, four-pole

pulsating AC/DC-sensitive type A, for special voltages 500 V



mod. pack.
widths units

Article No.

EAN
(4014712...)

016 A

DFS 4 016-4/0,01-A V500	$I_{\Delta n} = 0.01 \text{ A}$	4	1/20	09112945	147096
DFS 4 016-4/0,03-A V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09114945	147119

025 A

DFS 4 025-4/0,01-A V500	$I_{\Delta n} = 0.01 \text{ A}$	4	1/20	09122945	147133
DFS 4 025-4/0,03-A V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124945	143555
DFS 4 025-4/0,10-A V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09125945	147171
DFS 4 025-4/0,30-A V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09126945	145702
DFS 4 025-4/0,50-A V500	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09127945	145696

040 A

DFS 4 040-4/0,03-A V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134945	137912
DFS 4 040-4/0,10-A V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135945	145795
DFS 4 040-4/0,30-A V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136945	144835
DFS 4 040-4/0,50-A V500	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137945	147232

063 A

DFS 4 063-4/0,03-A V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144945	136861
DFS 4 063-4/0,10-A V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145945	144897
DFS 4 063-4/0,30-A V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146945	138223
DFS 4 063-4/0,50-A V500	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09147945	147256

080 A

DFS 4 080-4/0,03-A V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09154945	145429
DFS 4 080-4/0,10-A V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155945	147270
DFS 4 080-4/0,30-A V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156945	138193
DFS 4 080-4/0,50-A V500	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09157945	145931

100 A

DFS 4 100-4/0,03-A V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09164945	155510
DFS 4 100-4/0,10-A V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165945	155534
DFS 4 100-4/0,30-A V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166945	155558
DFS 4 100-4/0,50-A V500	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09167945	155572

125 A

DFS 4 125-4/0,03-A V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09174945	154391
DFS 4 125-4/0,10-A V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175945	155596
DFS 4 125-4/0,30-A V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176945	155619
DFS 4 125-4/0,50-A V500	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09177945	152427

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A



Residual current circuit-breakers DFS 4 A W, four-pole

pulsating AC/DC-sensitive type A, for frequencies 16 2/3 Hz or 16 2/3 - 60 Hz



040 A

DFS 4W 040-2/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137961	135482
DFS 4W 040-3/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137963	135505

063 A

DFS 4W 063-2/0,50-A	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09147961	135543
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All devices are also available in HD design (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 2 A Twin, two-pole



pulsating AC/DC-sensitive type A, Twin-version

016 A

DFS 2 016-2/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09114010	205710
DFS 2 016-2/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09116010	205734

025 A

DFS 2 025-2/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09124010	205642
DFS 2 025-2/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09126010	205741

040 A

DFS 2 040-2/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09134010	205659
DFS 2 040-2/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09136010	205758

063 A

DFS 2 063-2/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09144010	205666
DFS 2 063-2/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09146010	205765

080 A

DFS 2 080-2/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09154010	207431
DFS 2 080-2/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09156010	207479

for function check without disconnecting power

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A



Residual current circuit-breakers DFS 4 A Twin, four-pole



pulsating AC/DC-sensitive type A, Twin-version

016 A

DFS 4 016-4/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	8	1	09114810	205819
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025 A

DFS 4 025-4/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	8	1	09124810	205826
DFS 4 025-4/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	8	1	09126810	205888

040 A

DFS 4 040-4/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	8	1	09134810	205833
DFS 4 040-4/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	8	1	09136810	205895

063 A

DFS 4 063-4/0,03-A Twin	$I_{\Delta n} = 0.03 \text{ A}$	8	1	09144810	208179
DFS 4 063-4/0,30-A Twin	$I_{\Delta n} = 0.30 \text{ A}$	8	1	09146810	208186

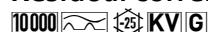
for function check without disconnecting power

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A



Residual current circuit-breakers DFS 2 A KV Twin, two-pole



pulsating AC/DC-sensitive type A, increased surge-current resistant, short-time delayed, lightning resistant, Twin-version

016 A

DFS 2 016-2/0,03-A KV Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09114009	206526
DFS 2 016-2/0,30-A KV Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09116009	206601

025 A

DFS 2 025-2/0,03-A KV Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09124009	206540
DFS 2 025-2/0,30-A KV Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09126009	206618

040 A

DFS 2 040-2/0,03-A KV Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09134009	206564
DFS 2 040-2/0,30-A KV Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09136009	206625

063 A

DFS 2 063-2/0,03-A KV Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09144009	206588
DFS 2 063-2/0,30-A KV Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09146009	206632

080 A

DFS 2 080-2/0,03-A KV Twin	$I_{\Delta n} = 0.03 \text{ A}$	4	1/10	09154009	208131
DFS 2 080-2/0,30-A KV Twin	$I_{\Delta n} = 0.30 \text{ A}$	4	1/10	09156009	208148

for function check without disconnecting power, non-response lag time 10 ms

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type A



Residual current circuit-breakers DFS 4 A KV Twin, four-pole

10000

pulsating AC/DC-sensitive type A, increased surge-current resistant,
short-time delayed, lightning resistant, Twin-version

016 A

mod.	pack.	widths	units	Article No.	EAN (4014712...)
DFS 4 016-4/0,03-A KV Twin					

025 A

DFS 4 025-4/0,03-A KV Twin					
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DFS 4 025-4/0,30-A KV Twin					
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040 A

DFS 4 040-4/0,03-A KV Twin					
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DFS 4 040-4/0,30-A KV Twin					
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063 A

DFS 4 063-4/0,03-A KV Twin					
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DFS 4 063-4/0,30-A KV Twin					
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for function check without disconnecting power, non-response lag time 10 ms

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A



Residual current circuit-breakers DFS 2 A STwin, two-pole

pulsating AC/DC-sensitive type A, selective, Twin-version

040 A

DFS 2 040-2/0,30-A STwin					
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DFS 2 040-2/0,50-A STwin					
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063 A

DFS 2 063-2/0,30-A STwin					
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DFS 2 063-2/0,50-A STwin					
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080 A

DFS 2 080-2/0,30-A STwin					
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DFS 2 080-2/0,50-A STwin					
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for function check without disconnecting power

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A



Residual current circuit-breakers DFS 4 A STwin, four-pole

pulsating AC/DC-sensitive type A, selective, Twin-version

040 A

DFS 4 040-4/0,30-A STwin					
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DFS 4 040-4/0,50-A STwin					
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063 A

DFS 4 063-4/0,30-A STwin					
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DFS 4 063-4/0,50-A STwin					
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for function check without disconnecting power

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type A



Residual current circuit-breakers DFS 4 A NA, four-pole

pulsating AC/DC-sensitive type A, emergency stop function

016 A

DFS4 016-4/0,03-A NA					
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025 A

DFS4 025-4/0,03-A NA					
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040 A

DFS4 040-4/0,03-A NA					
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063 A

DFS4 063-4/0,03-A NA					
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All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Residual current circuit-breakers (RCCB)

			mod. widths	pack. units	Article No.	EAN (4014712...)
	Type A	Residual current circuit-breakers DRCCB 5 ST, two-pole 10000    KV				
		<i>sensitive to pulsating and alternating currents Type A, short-time delayed</i>				
	25 A	DRCCB 5 ST 025-2/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	5	1	09421501	223233
		automatic, regular self-test without any interruption to the power supply				
	Type A	Residual current circuit-breakers DRCCB 5 ST, four-pole 10000    KV				
		<i>sensitive to pulsating and alternating currents Type A, short-time delayed</i>				
	25 A	DRCCB 5 ST 025-4/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	7	1	09421502	223240
	40 A	DRCCB 5 ST 040-4/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	7	1	09431502	223257
	63 A	DRCCB 5 ST 063-4/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	7	1	09441502	223264
		automatic, regular self-test without any interruption to the power supply				
	Type A	Residual current circuit-breakers DRCCB 5 STR, two-pole 10000    KV				
		<i>sensitive to pulsating and alternating currents Type A, short-time delayed</i>				
	25 A	DRCCB 5 STR 025-2/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	5	1	09421503	223271
		reclosing device with checking of the insulation resistance automatic, regular self-test without any interruption to the power supply				
	Type A	Residual current circuit-breakers DRCCB 5 STR, four-pole 10000    KV				
		<i>sensitive to pulsating and alternating currents Type A, short-time delayed</i>				
	25 A	DRCCB 5 STR 025-4/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	7	1	09421504	223288
	40 A	DRCCB 5 STR 040-4/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	7	1	09431504	223295
	63 A	DRCCB 5 STR 063-4/0,03-A $I_{\Delta n} = 0.03 \text{ A}$	7	1	09441504	223301
		reclosing device with checking of the insulation resistance automatic, regular self-test without any interruption to the power supply				

Residual current circuit-breakers (RCCB)

Type AC



Residual current circuit-breakers DFS 2 AC, two-pole



mod. pack.
widths units

Article No.

EAN
(4014712...)

016 A

DFS 2 016-2/0,01-AC	$I_{\Delta n} = 0.01 \text{ A}$	2	1/40	09112602	068964
DFS 2 016-2/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	2	1/40	09114602	068971
DFS 2 016-2/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09115602	068988
DFS 2 016-2/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09116602	068995
DFS 2 016-2/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09117602	069008

025 A

DFS 2 025-2/0,01-AC	$I_{\Delta n} = 0.01 \text{ A}$	2	1/40	09122602	069015
DFS 2 025-2/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	2	1/40	09124602	069022
DFS 2 025-2/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09125602	069039
DFS 2 025-2/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09126602	069046
DFS 2 025-2/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09127602	069053

040 A

DFS 2 040-2/0,01-AC	$I_{\Delta n} = 0.01 \text{ A}$	2	1/40	09132602	069060
DFS 2 040-2/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	2	1/40	09134602	069077
DFS 2 040-2/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09135602	069084
DFS 2 040-2/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09136602	069091
DFS 2 040-2/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09137602	069107

063 A

DFS 2 063-2/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	2	1/40	09144602	069114
DFS 2 063-2/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09145602	069121
DFS 2 063-2/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09146602	069138
DFS 2 063-2/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09147602	069145

080 A

DFS 2 080-2/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	2	1/40	09154602	069152
DFS 2 080-2/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09155602	069169
DFS 2 080-2/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09156602	069176
DFS 2 080-2/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09157602	069183

100 A

DFS 2 100-2/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	2	1/40	09164602	069190
DFS 2 100-2/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09165602	069206
DFS 2 100-2/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09166602	069213
DFS 2 100-2/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09167602	069220

125 A

DFS 2 125-2/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	2	1/40	09174602	086760
DFS 2 125-2/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09175602	086807
DFS 2 125-2/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09176602	086845
DFS 2 125-2/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09177602	086883

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type AC



Residual current circuit-breakers DFS 4 AC, four-pole



mod. widths	pack. units	Article No.	EAN (4014712...)
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016 A

DFS 4 016-4/0,01-AC	$I_{\Delta n} = 0.01 \text{ A}$	4	1/20	09112902	090460
DFS 4 016-4/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09114902	090484
DFS 4 016-4/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09115902	151710

025 A

DFS 4 025-4/0,01-AC	$I_{\Delta n} = 0.01 \text{ A}$	4	1/20	09122902	090507
DFS 4 025-4/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124902	090521
DFS 4 025-4/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09125902	090545
DFS 4 025-4/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09126902	090569
DFS 4 025-4/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09127902	090583

040 A

DFS 4 040-4/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134902	090606
DFS 4 040-4/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135902	090620
DFS 4 040-4/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136902	090644
DFS 4 040-4/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137902	090668

063 A

DFS 4 063-4/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144902	090682
DFS 4 063-4/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145902	090705
DFS 4 063-4/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146902	090729
DFS 4 063-4/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09147902	090743

080 A

DFS 4 080-4/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09154902	090767
DFS 4 080-4/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155902	090781
DFS 4 080-4/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156902	090804
DFS 4 080-4/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09157902	090828

100 A

DFS 4 100-4/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09164902	090842
DFS 4 100-4/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165902	090866
DFS 4 100-4/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166902	090880
DFS 4 100-4/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09167902	090903

125 A

DFS 4 125-4/0,03-AC	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09174902	090927
DFS 4 125-4/0,10-AC	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175902	090941
DFS 4 125-4/0,30-AC	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176902	090965
DFS 4 125-4/0,50-AC	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09177902	090989

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

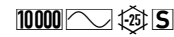
Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type AC



Residual current circuit-breakers DFS 2 AC S, two-pole



selective

040 A

DFS 2 040-2/0,10-AC S	I _{Δn} = 0.10 A	2	1/20	09135606	131354
DFS 2 040-2/0,30-AC S	I _{Δn} = 0.30 A	2	1/20	09136606	131378
DFS 2 040-2/0,50-AC S	I _{Δn} = 0.50 A	2	1/20	09137606	131392

063 A

DFS 2 063-2/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09145606	131415
DFS 2 063-2/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/20	09146606	131439
DFS 2 063-2/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/40	09147606	131453

080 A

DFS 2 080-2/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/20	09155606	131477
DFS 2 080-2/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/20	09156606	131491
DFS 2 080-2/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/20	09157606	131514

100 A

DFS 2 100-2/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/40	09165606	131538
DFS 2 100-2/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/40	09166606	131552
DFS 2 100-2/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/20	09167606	131576

125 A

DFS 2 125-2/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	2	1/20	09175606	131590
DFS 2 125-2/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	2	1/20	09176606	131613
DFS 2 125-2/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	2	1/20	09177606	131637

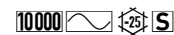
All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type AC



Residual current circuit-breakers DFS 4 AC S, four-pole



selective

040 A

DFS 4 040-4/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135906	131750
DFS 4 040-4/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136906	091726
DFS 4 040-4/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09137906	091740

063 A

DFS 4 063-4/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145906	131774
DFS 4 063-4/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146906	091801
DFS 4 063-4/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09147906	091825

080 A

DFS 4 080-4/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155906	131798
DFS 4 080-4/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156906	091887
DFS 4 080-4/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09157906	091900
DFS 4 080-4/1,00-AC S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09158906	091023

100 A

DFS 4 100-4/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165906	131811
DFS 4 100-4/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166906	091962
DFS 4 100-4/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09167906	091986
DFS 4 100-4/1,00-AC S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09168906	091047

125 A

DFS 4 125-4/0,10-AC S	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175906	131835
DFS 4 125-4/0,30-AC S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176906	092044
DFS 4 125-4/0,50-AC S	$I_{\Delta n} = 0.50 \text{ A}$	4	1/20	09177906	092068
DFS 4 125-4/1,00-AC S	$I_{\Delta n} = 1.00 \text{ A}$	4	1/20	09178906	091061

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type AC



Residual current circuit-breakers DFS 2 AC FT, two-pole



with remote-tripping function

040 A

DFS 2 040-2/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

mod. widths	pack. units	Article No.	EAN (4014712...)
2.5	1	09134622	213487

In the FT design, the connections of the internal test key are additionally wired to two terminals. This allows the option of activating the circuit-breaker test device using external switching contacts. All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Type AC



Residual current circuit-breakers DFS 4 AC FT, four-pole



with remote-tripping function

016 A

DFS 4 016-4/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

4.5	1	09114922	200609
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025 A

DFS 4 025-4/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

4.5	1	09124922	200470
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040 A

DFS 4 040-4/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

4.5	1/10	09134922	156920
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DFS 4 040-4/0,30-AC FT $I_{\Delta n} = 0.30 \text{ A}$

4.5	1	09136922	160361
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DFS 4 040-4/0,50-AC FT $I_{\Delta n} = 0.50 \text{ A}$

4.5	1/20	09137922	129245
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063 A

DFS 4 063-4/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

4.5	1/10	09144922	200524
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DFS 4 063-4/0,50-AC FT $I_{\Delta n} = 0.50 \text{ A}$

4.5	1/20	09147922	121751
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080 A

DFS 4 080-4/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

4.5	1	09154922	106871
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100 A

DFS 4 100-4/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

4.5	1/10	09164922	159655
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DFS 4 100-4/0,50-AC FT $I_{\Delta n} = 0.50 \text{ A}$

4.5	1	09167922	159013
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125 A

DFS 4 125-4/0,03-AC FT $I_{\Delta n} = 0.03 \text{ A}$

4.5	1	09174922	200531
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In the FT design, the connections of the internal test key are additionally wired to two terminals. This allows the option of activating the circuit-breaker test device using external switching contacts. All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type AC



Residual current circuit-breakers DFS 4 AC W, four-pole



sensitive to residual currents Type AC, for frequencies 16 2/3 Hz or 16 2/3 - 60 Hz

040 A

DFS 4W 040-2/0,50-AC $I_{\Delta n} = 0.50 \text{ A}$

4	1/20	09137962	135499
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DFS 4W 040-3/0,50-AC $I_{\Delta n} = 0.50 \text{ A}$

4	1/20	09137964	135512
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063 A

DFS 4W 063-2/0,50-AC $I_{\Delta n} = 0.50 \text{ A}$

4	1/20	09147962	135550
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All devices are also available in HD design (see info pages).

Accessories: DHI 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type F



Residual current circuit-breakers DFS 2 F, two-pole

10000 <

Residual current circuit-breakers (RCCB)

Type F



Residual current circuit-breakers DFS 4 F, four-pole



sensitive to residual currents Type F, short-time delayed, lightning resistant

016 A

mod.	pack.	widths	units	Article No.	EAN (4014712...)
DFS 4 016-4/0,03-F					
			4 1/20	09114820	212169
DFS 4 016-4/0,10-F			4 1/20	09115820	212183
DFS 4 016-4/0,30-F			4 1/20	09116820	212206
DFS 4 016-4/0,50-F			4 1/20	09117820	212220

025 A

DFS 4 025-4/0,03-F			4 1/20	09124820	212244
DFS 4 025-4/0,10-F			4 1/20	09125820	212268
DFS 4 025-4/0,30-F			4 1/20	09126820	212282
DFS 4 025-4/0,50-F			4 1/20	09127820	212305

040 A

DFS 4 040-4/0,03-F			4 1/20	09134820	212329
DFS 4 040-4/0,10-F			4 1/20	09135820	212343
DFS 4 040-4/0,30-F			4 1/20	09136820	212367
DFS 4 040-4/0,50-F			4 1/20	09137820	212381

063 A

DFS 4 063-4/0,03-F			4 1/20	09144820	212404
DFS 4 063-4/0,10-F			4 1/20	09145820	212428
DFS 4 063-4/0,30-F			4 1/20	09146820	212442
DFS 4 063-4/0,50-F			4 1/20	09147820	212466

080 A

DFS 4 080-4/0,03-F			4 1/20	09154820	212497
DFS 4 080-4/0,10-F			4 1/20	09155820	212510
DFS 4 080-4/0,30-F			4 1/20	09156820	212534
DFS 4 080-4/0,50-F			4 1/20	09157820	212558

100 A

DFS 4 100-4/0,03-F			4 1/20	09164820	213111
DFS 4 100-4/0,10-F			4 1/20	09165820	213135
DFS 4 100-4/0,30-F			4 1/20	09166820	213159
DFS 4 100-4/0,50-F			4 1/20	09167820	213173

125 A

DFS 4 125-4/0,03-F			4 1/20	09174820	213197
DFS 4 125-4/0,10-F			4 1/20	09175820	213210
DFS 4 125-4/0,30-F			4 1/20	09176820	213234
DFS 4 125-4/0,50-F			4 1/20	09177820	213258

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type B



Residual current circuit-breakers DFS 4 B NK, two-pole

10000 **KHz** **KV**

AC/DC sensitive type B, for installations with PV inverters, UPS devices etc, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention up to 100 kHz

016 A

DFS 4 016-2/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09114695	153264
DFS 4 016-2/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09115695	153288
DFS 4 016-2/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09116695	153301

025 A

DFS 4 025-2/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124695	153349
DFS 4 025-2/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09125695	153363
DFS 4 025-2/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09126695	153387

040 A

DFS 4 040-2/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134695	155336
DFS 4 040-2/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135695	155350
DFS 4 040-2/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136695	153080

063 A

DFS 4 063-2/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144695	157118
DFS 4 063-2/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145695	157132
DFS 4 063-2/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146695	157156

080 A

DFS 4 080-2/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09154695	157194
DFS 4 080-2/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155695	157217
DFS 4 080-2/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156695	157231

100 A

DFS 4 100-2/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09164695	157279
DFS 4 100-2/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165695	157293
DFS 4 100-2/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166695	157095

125 A

DFS 4 125-2/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09174695	157330
DFS 4 125-2/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175695	157354
DFS 4 125-2/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176695	157378

Tripping current frequency response up to 100 kHz, higher tripping threshold of 2 A compared to DFS 4B NK for frequencies > 1 kHz, non-response lag time 10 ms. All devices are also available in HD design (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type B



Residual current circuit-breakers DFS 4 B NK, four-pole

10000 kHz KV G

AC/DC sensitive type B, for installations with frequency inverters, UPS devices etc, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention up to 100 kHz

016 A

DFS 4 016-4/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09114995	139237
DFS 4 016-4/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09115995	139251
DFS 4 016-4/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09116995	139275

025 A

DFS 4 025-4/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124995	139312
DFS 4 025-4/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09125995	139336
DFS 4 025-4/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09126995	139350

040 A

DFS 4 040-4/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134995	139398
DFS 4 040-4/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135995	139411
DFS 4 040-4/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136995	139435

063 A

DFS 4 063-4/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144995	139473
DFS 4 063-4/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145995	139497
DFS 4 063-4/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146995	139510

080 A

DFS 4 080-4/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09154995	139558
DFS 4 080-4/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155995	139572
DFS 4 080-4/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156995	139596

100 A

DFS 4 100-4/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09164995	139633
DFS 4 100-4/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165995	139657
DFS 4 100-4/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166995	139671

125 A

DFS 4 125-4/0,03-B NK	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09174995	144453
DFS 4 125-4/0,10-B NK	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175995	144620
DFS 4 125-4/0,30-B NK	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176995	139718

Tripping current frequency response with extended frequency range up to 100 kHz at a maximum tripping current of 300 mA, non-response lag time 10 ms. All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type B



Residual current circuit-breakers DFS 4 B NK S, four-pole

10000 kHz KV G

AC/DC sensitive type B, for installations with frequency inverters, UPS devices etc, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention, up to 100 kHz, selective

040 A

DFS 4 040-4/0,30-B NK S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136979	205475
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063 A

DFS 4 063-4/0,30-B NK S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146979	198357
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080 A

DFS 4 080-4/0,30-B NK S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156979	205499
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100 A

DFS 4 100-4/0,30-B NK S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166979	205512
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125 A

DFS 4 125-4/0,30-B NK S	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176979	161450
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All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type B



Residual current circuit-breakers DFS 4 B NK V, four-pole

10000 kHz KV G

AC/DC-sensitive Type B, for systems with frequency converters, UPS devices, etc, increased surge current strength, short-time delayed, lightning-resistant, fire protection up to 100 kHz, for special voltages

016 A

DFS 4 016-4/0,03-B NK V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09114983	155633
DFS 4 016-4/0,10-B NK V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09115983	155657
DFS 4 016-4/0,30-B NK V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09116983	155671

025 A

DFS 4 025-4/0,03-B NK V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09124983	155718
DFS 4 025-4/0,10-B NK V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09125983	155732
DFS 4 025-4/0,30-B NK V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09126983	155756

040 A

DFS 4 040-4/0,03-B NK V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09134983	155794
DFS 4 040-4/0,10-B NK V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09135983	155817
DFS 4 040-4/0,30-B NK V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09136983	155831

063 A

DFS 4 063-4/0,03-B NK V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09144983	155879
DFS 4 063-4/0,10-B NK V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09145983	155893
DFS 4 063-4/0,30-B NK V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09146983	155916

080 A

DFS 4 080-4/0,03-B NK V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09154983	155954
DFS 4 080-4/0,10-B NK V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09155983	155978
DFS 4 080-4/0,30-B NK V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09156983	155992

100 A

DFS 4 100-4/0,03-B NK V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09164983	156036
DFS 4 100-4/0,10-B NK V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09165983	156050
DFS 4 100-4/0,30-B NK V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09166983	156074

125 A

DFS 4 125-4/0,03-B NK V500	$I_{\Delta n} = 0.03 \text{ A}$	4	1/20	09174983	156111
DFS 4 125-4/0,10-B NK V500	$I_{\Delta n} = 0.10 \text{ A}$	4	1/20	09175983	156135
DFS 4 125-4/0,30-B NK V500	$I_{\Delta n} = 0.30 \text{ A}$	4	1/20	09176983	156159

All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Residual current circuit-breakers (RCCB)

Type B+



Residual current circuit-breakers DFS 4 B+, two-pole

10000

Residual current circuit-breakers (RCCB)

Type B+



Residual current circuit-breakers DFS 4 B+, four-pole

10000 kHz KV G

AC/DC sensitive type B+, for installations with frequency inverters, UPS devices etc, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention up to 20 kHz

016 A

DFS 4 016-4/0,03-B+	I _{Δn} = 0.03 A	4	1/20	09114895	203112
DFS 4 016-4/0,10-B+	I _{Δn} = 0.10 A	4	1/20	09115895	203136
DFS 4 016-4/0,30-B+	I _{Δn} = 0.30 A	4	1/20	09116895	203150

025 A

DFS 4 025-4/0,03-B+	I _{Δn} = 0.03 A	4	1/20	09124895	203174
DFS 4 025-4/0,10-B+	I _{Δn} = 0.10 A	4	1/20	09125895	203198
DFS 4 025-4/0,30-B+	I _{Δn} = 0.30 A	4	1/20	09126895	203211

040 A

DFS 4 040-4/0,03-B+	I _{Δn} = 0.03 A	4	1/20	09134895	203235
DFS 4 040-4/0,10-B+	I _{Δn} = 0.10 A	4	1/20	09135895	203259
DFS 4 040-4/0,30-B+	I _{Δn} = 0.30 A	4	1/20	09136895	203273

063 A

DFS 4 063-4/0,03-B+	I _{Δn} = 0.03 A	4	1/20	09144895	203297
DFS 4 063-4/0,10-B+	I _{Δn} = 0.10 A	4	1/20	09145895	203310
DFS 4 063-4/0,30-B+	I _{Δn} = 0.30 A	4	1/20	09146895	203334

080 A

DFS 4 080-4/0,03-B+	I _{Δn} = 0.03 A	4	1/20	09154895	203358
DFS 4 080-4/0,10-B+	I _{Δn} = 0.10 A	4	1/20	09155895	203372
DFS 4 080-4/0,30-B+	I _{Δn} = 0.30 A	4	1/20	09156895	203396

100 A

DFS 4 100-4/0,03-B+	I _{Δn} = 0.03 A	4	1/20	09164895	203419
DFS 4 100-4/0,10-B+	I _{Δn} = 0.10 A	4	1/20	09165895	203433
DFS 4 100-4/0,30-B+	I _{Δn} = 0.30 A	4	1/20	09166895	203457

125 A

DFS 4 125-4/0,03-B+	I _{Δn} = 0.03 A	4	1/20	09174895	203471
DFS 4 125-4/0,10-B+	I _{Δn} = 0.10 A	4	1/20	09175895	203495
DFS 4 125-4/0,30-B+	I _{Δn} = 0.30 A	4	1/20	09176895	203518

Tripping current frequency response up to 20 kHz, higher tripping threshold of 420 mA compared to DFS 4 B NK, non-response lag time 10 ms. All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Type B+



Residual current circuit-breakers DFS 4 B+ MI, four-pole

10000 kHz KV G

AC/DC sensitive type B+, for mobile installations

016 A

DFS 4 016-4/0,03-B+ MI	I _{Δn} = 0.03 A	4	1/20	09114889	217966
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025 A

DFS 4 025-4/0,03-B+ MI	I _{Δn} = 0.03 A	4	1/20	09124889	217980
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040 A

DFS 4 040-4/0,03-B+ MI	I _{Δn} = 0.03 A	4	1/20	09134889	218000
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063 A

DFS 4 063-4/0,03-B+ MI	I _{Δn} = 0.03 A	4	1/20	09144889	218024
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Tripping current frequency response up to 20 kHz, higher tripping threshold of 420 mA compared to DFS 4 B NK, non-response lag time 10 ms, with DC tripping threshold 6 mA. All devices are also available in HD design and with right-hand neutral conductor (see info pages).

Residual current circuit-breakers (RCCB)

Type B



Residual current circuit-breakers DFS 4 B SK, two-pole

10000

Residual current circuit-breakers (RCCB)

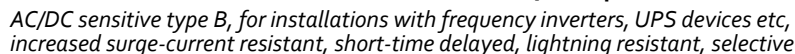
Type B



Residual current circuit-breakers DFS 4 B SK, four-pole

10000

Residual current circuit-breakers DFS 4 B SK S, four-pole



Residual current circuit-breakers DFS 4 B SK V, four-pole      

*AC/DC sensitive type B, for installations with frequency inverters, UPS devices etc,
increased surge-current resistant, short-time delayed, lightning resistant, for special voltages 500 V*

016 A

AC/DC sensitive type B, for installations with frequency inverters, UPS devices etc,
increased surge-current resistant, short-time delayed, lightning resistant, for special voltages 500 V
016 A

All devices are also available in HD design and with right-hand neutral conductor (see info pages).



Type B

AC/DC sensitive type B, for installations with frequency inverters, UPS devices etc, increased surge-current resistant, short-time delayed, lightning resistant, selective, for special voltages 500 V

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4

Accessories: DHi 11, WES, KA-DFS 2, Labelling Software DLS 6, DFS 2/4



Type B

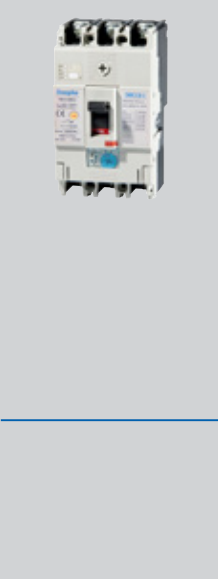
AC/DC sensitive type B, fire protection according to VDE 0100-420, emergency stop function

All devices are also available in HD design and with right-hand neutral conductor (see info pages).



mobile distribution board with full rubber housing and integrated residual current protection

The devices are fitted with DFS 4 B SK MI HD ($I_{\Delta n} = 0.03$ A). Rated voltage 230 V, 400 V/ 50 Hz



*Safe and reliable energy management, switching and control
in industry, building automation and use of machinery*

DMCCB 2 040-1-ESF	one-pole, 40 A, Ics = , Icu = 25 kA	1	09313211	217386
DMCCB 2 063-1-ESF	one-pole, 63 A, Ics = , Icu = 25 kA	1	09315211	217393
DMCCB 2 100-1-ESF	one-pole, 100 A, Ics = , Icu = 25 kA	1	09317211	217409
DMCCB 3 125-4-SSF	four-pole, 125 A, Ics = 20 kA, Icu = 40 kA	1	09318344	219090
DMCCB 3 200-3-SSF	three-pole, 200 A, Ics = 20 kA, Icu = 40 kA	1	09320334	217614
DMCCB 3 250-3-SSF	three-pole, 250 A, Ics = 20 kA, Icu = 40 kA	1	09321334	217621
Ics/ Icu at Ue = 400/415 VAC				

Accessories: DUVT 1, DSHT 1, DAX 1-1

Moulded case circuit-breakers (MCCB)



Moulded case circuit-breakers DMCCB electronic

Safe and reliable energy management, switching and control in industry, building automation and use of machinery

trip adjustable

mod. widths	pack. units	Article No.	EAN (4014712...)
DMCCB 4 250-3-SNE	three-pole, 250 A, Ics = 50 kA, Icu = 50 kA	1 09321436	217737
DMCCB 4 250-4-SNE	four-pole, 250 A, Ics = 50 kA, Icu = 50 kA	1 09321446	217751
DMCCB 4 400-3-SNE	three-pole, 400 A, Ics = 50 kA, Icu = 50 kA	1 09322436	217744
DMCCB 4 400-4-SNE	four-pole, 400 A, Ics = 50 kA, Icu = 50 kA	1 09322446	217768
DMCCB 5 630-3-ENE	three-pole, 630 A, Ics = 36 kA, Icu = 36 kA	1 09323537	217775
DMCCB 5 630-3-SCE	three-pole, 630 A, Ics = 50 kA, Icu = 50 kA	1 09323538	217799
DMCCB 5 630-4-ENE	four-pole, 630 A, Ics = 36 kA, Icu = 36 kA	1 09323547	217782
DMCCB 5 630-4-SCE	four-pole, 630 A, Ics = 50 kA, Icu = 50 kA	1 09323548	217805
DMCCB 6 800-3-SNE	three-pole, 800 A, Ics = 50 kA, Icu = 50 kA	1 09324636	219106
DMCCB 7 1000-3-SNE	three-pole, 1000 A, Ics = 50 kA, Icu = 70 kA	1 09325736	217850
DMCCB 7 1000-3-SSE	three-pole, 1000 A, Ics = 38 kA, Icu = 50 kA	1 09325739	217836
DMCCB 7 1000-4-SNE	four-pole, 1000 A, Ics = 50 kA, Icu = 70 kA	1 09325746	217867
DMCCB 7 1000-4-SSE	four-pole, 1000 A, Ics = 38 kA, Icu = 50 kA	1 09325749	217843
DMCCB 8 1250-3-SNE	three-pole, 1250 A, Ics = 50 kA, Icu = 70 kA	1 09326836	217898
DMCCB 8 1250-3-SSE	three-pole, 1250 A, Ics = 38 kA, Icu = 50 kA	1 09326839	217874
DMCCB 8 1250-4-SNE	four-pole, 1250 A, Ics = 50 kA, Icu = 70 kA	1 09326846	217904
DMCCB 8 1250-4-SSE	four-pole, 1250 A, Ics = 38 kA, Icu = 50 kA	1 09326849	217881

Ics/ Icu at Ue = 400/415 VAC

Accessories: DUVT 2, DSHT 2, DAX 2-1, DUVT 3, DSHT 3



Moulded case circuit-breakers DMCCB magnetic/thermal

Safe and reliable energy management, switching and control in industry, building automation and use of machinery

trip adjustable

DMCCB 1 020-3-SNJ	three-pole, 20 A, Ics = 36 kA, Icu = 36 kA	1 09310133	217553
DMCCB 1 032-3-SNJ	three-pole, 32 A, Ics = 36 kA, Icu = 36 kA	1 09312133	217560
DMCCB 1 050-3-SNJ	three-pole, 50 A, Ics = 36 kA, Icu = 36 kA	1 09314133	217577
DMCCB 1 063-3-SNJ	three-pole, 63 A, Ics = 36 kA, Icu = 36 kA	1 09315133	217584
DMCCB 1 100-3-SNJ	three-pole, 100 A, Ics = 36 kA, Icu = 36 kA	1 09317133	217591
DMCCB 1 125-3-SNJ	three-pole, 125 A, Ics = 36 kA, Icu = 36 kA	1 09318133	217607
DMCCB 2 020-3-SNJ	three-pole, 20 A, Ics = 36 kA, Icu = 36 kA	1 09310233	217478
DMCCB 2 032-3-SNJ	three-pole, 32 A, Ics = 36 kA, Icu = 36 kA	1 09312233	217485
DMCCB 2 050-3-SNJ	three-pole, 50 A, Ics = 36 kA, Icu = 36 kA	1 09314233	217492
DMCCB 2 063-3-SNJ	three-pole, 63 A, Ics = 36 kA, Icu = 36 kA	1 09315233	217508
DMCCB 2 100-3-SNJ	three-pole, 100 A, Ics = 36 kA, Icu = 36 kA	1 09317233	217515
DMCCB 2 125-3-SNJ	three-pole, 125 A, Ics = 36 kA, Icu = 36 kA	1 09318233	217522
DMCCB 2 160-3-SNJ	three-pole, 160 A, Ics = 36 kA, Icu = 36 kA	1 09319233	217539
DMCCB 3 160-3-SNJ	three-pole, 160 A, Ics = 36 kA, Icu = 36 kA	1 09319333	217638
DMCCB 3 160-4-SNJ	four-pole, 160 A, Ics = 36 kA, Icu = 36 kA	1 09319343	217669
DMCCB 3 200-3-SNJ	three-pole, 200 A, Ics = 36 kA, Icu = 36 kA	1 09320333	217645
DMCCB 3 200-4-SNJ	four-pole, 200 A, Ics = 36 kA, Icu = 36 kA	1 09320343	217676
DMCCB 3 250-3-SNJ	three-pole, 250 A, Ics = 36 kA, Icu = 36 kA	1 09321333	217652
DMCCB 3 250-4-SNJ	four-pole, 250 A, Ics = 36 kA, Icu = 36 kA	1 09321343	217683
DMCCB 4 250-3-SCJ	three-pole, 250 A, Ics = 36 kA, Icu = 36 kA	1 09321435	217690
DMCCB 4 250-4-SCJ	four-pole, 250 A, Ics = 36 kA, Icu = 36 kA	1 09321445	217713
DMCCB 4 400-3-SCJ	three-pole, 400 A, Ics = 36 kA, Icu = 36 kA	1 09322435	217706
DMCCB 4 400-4-SCJ	four-pole, 400 A, Ics = 36 kA, Icu = 36 kA	1 09322445	217720
DMCCB 6 800-3-SNJ	three-pole, 800 A, Ics = 50 kA, Icu = 50 kA	1 09324633	217812
DMCCB 6 800-4-SNJ	four-pole, 800 A, Ics = 50 kA, Icu = 50 kA	1 09324643	217829

Ics/ Icu at Ue = 400/415 VAC

Accessories: DUVT 2, DSHT 2, DAX 2-1, DUVT 3

Moulded case circuit-breakers (MCCB), Modular residual current protective devices (MRCD)



Moulded case circuit-breakers DMCCB thermal

Safe and reliable energy management, switching and control in industry,
building automation and use of machinery

trip adjustable

mod.	pack.				
widths	units		Article No.	EAN (4014712...)	
DMCCB 2 025-3-SSCJ	three-pole, 25 A, Ics = 13 kA, Icu = 25 kA	1	09311232	217416	
DMCCB 2 040-3-SSCJ	three-pole, 40 A, Ics = 13 kA, Icu = 25 kA	1	09313232	217423	
DMCCB 2 063-3-SSCJ	three-pole, 63 A, Ics = 13 kA, Icu = 25 kA	1	09315232	217430	
DMCCB 2 080-3-SSCJ	three-pole, 80 A, Ics = 13 kA, Icu = 25 kA	1	09316232	217447	
DMCCB 2 100-3-SSCJ	three-pole, 100 A, Ics = 13 kA, Icu = 25 kA	1	09317232	217454	
DMCCB 2 125-3-SSCJ	three-pole, 125 A, Ics = 13 kA, Icu = 25 kA	1	09318232	217461	
DMCCB 2 160-3-SSCJ	three-pole, 160 A, Ics = 13 kA, Icu = 25 kA	1	09319232	217546	

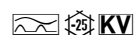
Ics/ Icu at Ue = 400/415 VAC

Accessories: DUVT 1, DSHT 1, DAX 1-1

Type A



Modular residual current protective devices MFR Type A



Residual current control relays up to 500 V

MFR	0.3 A, 0.5 A, 1 A adjustable	4	1	09340198	121713
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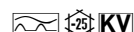
Rated residual response current fixed by MFIW transformer, 2 potential-free NO contacts

Accessories: DHI 11

Type A



Modular residual current protective devices DRP Type A



electronic residual current control relays up to 500 V

DRP	0.03 A, 0.1 A, 0.3 A, 0.5 A, 1 A depending on transformer	6	1	09340110	031777
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Rated voltage 500 V AC, rated residual response current 1 A

Type A



Modular residual current protective devices DMRCD Type A



10-way LED display, external connection of transformers DCT A

DMRCD 1 A	0.03 A, 0.1 A, 0.3 A, 1 A, 3 A adjustable	4	1	09340350	202665
DMRCD 2 A	0.03 A, 0.1 A, 0.3 A, 1 A, 10 A adjustable	4	1	09340360	209534

Supply 85 V - 264 V AC/50 - 60 Hz, response residual current characteristic 50 - 60 Hz Type A,
pre-alarm/main alarm 1 changeover contact each, 230 V/5 A (cos φ 0.9)

Type A



Modular residual current protective devices DMRCD Type A/AC



10-way LED display, external connection of transformers DCT A

DMRCD 1 A Hz	0.03 A fixed	4	1	09340353	207196
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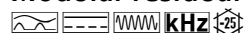
Supply 22-26 V DC, response residual current characteristic 40-2000 Hz Type AC/50-60 Hz Type A,
switching contact alarm 1 changeover contact, 230 V/5 A (cos φ 0.9)

Modular residual current protective devices (MRCD), RCCB with overcurrent protection (RCBO)

Type B+



Modular residual current protective devices DMRCD Type B+



10-way LED display, external connection of transformers DCT B+

DMRCD 1 B+ 0.03 A, 0.1 A, 0.3 A, 1 A, 3 A adjustable

Supply 85–264 V AC/50–60 Hz, response residual current characteristic type B (DC up to 100 kHz)

mod. widths	pack. units	Article No.	EAN (4014712...)
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4	1	09340400	220672
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Type A



RCCB with overcurrent protection DRCBO 3 Type A, 1+N-pole



pulsating AC/DC-sensitive type A

Characteristic B

006 A

DRCBO 3 B06/0,03/1N-A

2	1	09932101	220560
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010 A

DRCBO 3 B10/0,03/1N-A

2	1	09932102	220584
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013 A

DRCBO 3 B13/0,03/1N-A

2	1	09932103	220607
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016 A

DRCBO 3 B16/0,01/1N-A

2	1	09932144	220843
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DRCBO 3 B16/0,03/1N-A

2	1	09932104	220621
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DRCBO 3 B16/0,30/1N-A

2	1	09932114	220669
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Characteristic C

006 A

DRCBO 3 C06/0,03/1N-A

2	1	09932121	220683
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010 A

DRCBO 3 C10/0,03/1N-A

2	1	09932122	220706
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013 A

DRCBO 3 C13/0,03/1N-A

2	1	09932123	220720
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016 A

DRCBO 3 C16/0,01/1N-A

2	1	09932154	220867
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DRCBO 3 C16/0,03/1N-A

2	1	09932124	220744
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DRCBO 3 C16/0,30/1N-A

2	1	09932134	220829
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020 A

DRCBO 3 C20/0,03/1N-A

2	1	09932125	220768
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025 A

DRCBO 3 C25/0,03/1N-A

2	1	09932126	220782
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032 A

DRCBO 3 C32/0,03/1N-A

2	1	09932127	220805
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Accessories: Hi 11, FAM 1

RCCB with overcurrent protection (RCBO)

Type A



RCCB with overcurrent protection DRCBO 3 Type A KV, 1+N-pole

10000

pulsating AC/DC-sensitive type A, short-time delayed

Characteristic B

016 A

DRCBO 3 B16/0,03/1N-A KV

mod. pack.
widths units

Article No.

EAN
(4014712...)

2 1 09932404 220928

025 A

DRCBO 3 B25/0,03/1N-A KV

2 1 09932406 220942

032 A

DRCBO 3 B32/0,03/1N-A KV

2 1 09932407 220966

040 A

DRCBO 3 B40/0,03/1N-A KV

2 1 09932408 220980

Characteristic C

016 A

DRCBO 3 C16/0,03/1N-A KV

2 1 09932424 221000

025 A

DRCBO 3 C25/0,03/1N-A KV

2 1 09932426 221024

032 A

DRCBO 3 C32/0,03/1N-A KV

2 1 09932427 221048

040 A

DRCBO 3 C40/0,03/1N-A KV

2 1 09932428 221062

Accessories: Hi 11, FAM 1

Type A



RCCB with overcurrent protection FIB Type A, 3+N-pole

6000

pulsating AC/DC-sensitive type A

Characteristic B

006 A

FIB 06/0,03/3+N-A

4 1 09955101 148949

FIB 06/0,30/3+N-A

4 1 09955111 149021

010 A

FIB 10/0,03/3+N-A

4 1 09955102 148956

FIB 10/0,30/3+N-A

4 1 09955112 149038

013 A

FIB 13/0,03/3+N-A

4 1 09955103 148963

FIB 13/0,30/3+N-A

4 1 09955113 149045

016 A

FIB 16/0,03/3+N-A

4 1 09955104 148970

FIB 16/0,30/3+N-A

4 1 09955114 149052

020 A

FIB 20/0,03/3+N-A

4 1 09955105 148987

FIB 20/0,30/3+N-A

4 1 09955115 149069

025 A

FIB 25/0,03/3+N-A

4 1 09955106 148994

FIB 25/0,30/3+N-A

4 1 09955116 149076

032 A

FIB 32/0,03/3+N-A

4 1 09955107 149007

FIB 32/0,30/3+N-A

4 1 09955117 149083

040 A

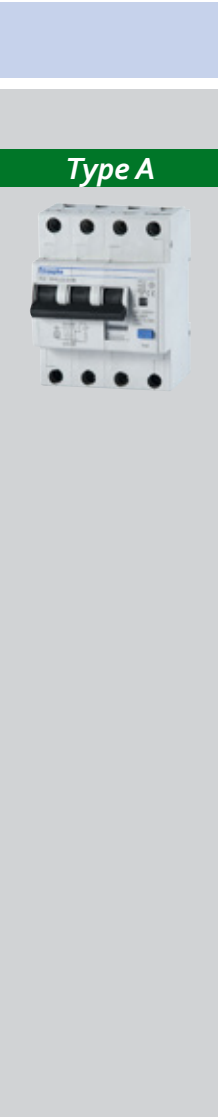
FIB 40/0,03/3+N-A

5 1 09955108 149014

FIB 40/0,30/3+N-A

5 1 09955118 149090

Accessories: DRCBO 4 Hi 1



RCCB with overcurrent protection (RCBO)

Type A

RCCB with overcurrent protection FIC Type A, 3+N-pole
pulsating AC/DC-sensitive type A



Characteristic C

006 A

FIC 06/0,03/3+N-A	4	1	09955121	149144
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FIC 06/0,30/3+N-A	4	1	09955131	149229
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010 A

FIC 10/0,03/3+N-A	4	1	09955122	149151
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FIC 10/0,30/3+N-A	4	1	09955132	149236
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013 A

FIC 13/0,03/3+N-A	4	1	09955123	149168
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FIC 13/0,30/3+N-A	4	1	09955133	149243
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016 A

FIC 16/0,03/3+N-A	4	1	09955124	149175
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FIC 16/0,30/3+N-A	4	1	09955134	149250
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020 A

FIC 20/0,03/3+N-A	4	1	09955125	149182
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FIC 20/0,30/3+N-A	4	1	09955135	149267
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025 A

FIC 25/0,03/3+N-A	4	1	09955126	149199
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FIC 25/0,30/3+N-A	4	1	09955136	149274
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032 A

FIC 32/0,03/3+N-A	4	1	09955127	149205
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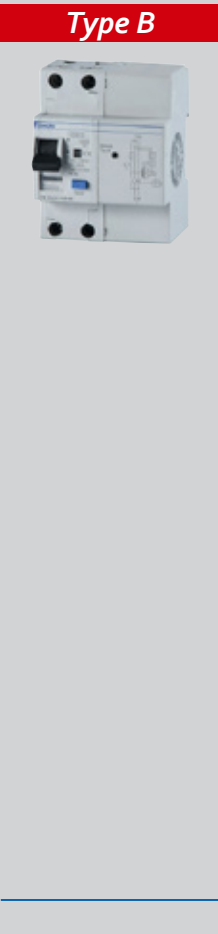
FIC 32/0,30/3+N-A	4	1	09955137	149281
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040 A

FIC 40/0,03/3+N-A	5	1	09955128	149212
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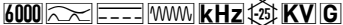
FIC 40/0,30/3+N-A	5	1	09955138	149298
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Accessories: DRCBO 4 Hi 1



Type B

RCCB with overcurrent protection FIB Type B NK, 1+N-pole



AC/DC sensitive type B, NK-Characteristic

Characteristic B

006 A

FIB 06/0,03/1+N-B NK	4	1	09959201	210905
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FIB 06/0,30/1+N-B NK	4	1	09959211	210967
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010 A

FIB 10/0,03/1+N-B NK	4	1	09959202	210912
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FIB 10/0,30/1+N-B NK	4	1	09959212	210974
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013 A

FIB 13/0,03/1+N-B NK	4	1	09959203	210929
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FIB 13/0,30/1+N-B NK	4	1	09959213	210981
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016 A

FIB 16/0,03/1+N-B NK	4	1	09959204	209671
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FIB 16/0,30/1+N-B NK	4	1	09959214	210998
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020 A

FIB 20/0,03/1+N-B NK	4	1	09959205	210936
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FIB 20/0,30/1+N-B NK	4	1	09959215	211001
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025 A

FIB 25/0,03/1+N-B NK	4	1	09959206	210943
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FIB 25/0,30/1+N-B NK	4	1	09959216	211018
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032 A

FIB 32/0,03/1+N-B NK	4	1	09959207	210950
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FIB 32/0,30/1+N-B NK	4	1	09959217	211025
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6 A - 10 A and 16 A - 32 A with VDE certification

Accessories: DRCBO 4 Hi 1

RCCB with overcurrent protection (RCBO)

Type B



RCCB with overcurrent protection FIB Type B NK, 3+N-pole

6000

AC/DC sensitive type B, NK-Characteristic

Characteristic B

006 A

FIB 06/0,03/3+N-B NK		6	1	09958201	211155
FIB 06/0,30/3+N-B NK		6	1	09958211	211209

010 A

FIB 10/0,03/3+N-B NK		6	1	09958202	211162
FIB 10/0,30/3+N-B NK		6	1	09958212	211216

013 A

FIB 13/0,03/3+N-B NK		6	1	09958203	211179
FIB 13/0,30/3+N-B NK		6	1	09958213	211223

016 A

FIB 16/0,03/3+N-B NK		6	1	09958204	207189
FIB 16/0,30/3+N-B NK		6	1	09958214	211230

020 A

FIB 20/0,03/3+N-B NK		6	1	09958205	211186
FIB 20/0,30/3+N-B NK		6	1	09958215	211247

025 A

FIB 25/0,03/3+N-B NK		6	1	09958206	211193
FIB 25/0,30/3+N-B NK		6	1	09958216	211254

032 A

FIB 32/0,03/3+N-B NK		6	1	09958207	210400
FIB 32/0,30/3+N-B NK		6	1	09958217	211261

6 A - 10 A and 16 A - 32 A with VDE certification

Accessories: DRCBO 4 Hi 1

Type B



RCCB with overcurrent protection FIC Type B NK, 1+N-pole

6000

AC/DC sensitive Type B, NK characteristics

Characteristic C

006 A

FIC 06/0,03/1+N-B NK		4	1	09959221	211032
FIC 06/0,30/1+N-B NK		4	1	09959231	211094

010 A

FIC 10/0,03/1+N-B NK		4	1	09959222	211049
FIC 10/0,30/1+N-B NK		4	1	09959232	211100

013 A

FIC 13/0,03/1+N-B NK		4	1	09959223	211056
FIC 13/0,30/1+N-B NK		4	1	09959233	211117

016 A

FIC 16/0,03/1+N-B NK		4	1	09959224	208063
FIC 16/0,30/1+N-B NK		4	1	09959234	208070

020 A

FIC 20/0,03/1+N-B NK		4	1	09959225	211063
FIC 20/0,30/1+N-B NK		4	1	09959235	211124

025 A

FIC 25/0,03/1+N-B NK		4	1	09959226	211070
FIC 25/0,30/1+N-B NK		4	1	09959236	211131

032 A

FIC 32/0,03/1+N-B NK		4	1	09959227	211087
FIC 32/0,30/1+N-B NK		4	1	09959237	211148

6 A - 10 A and 16 A - 32 A with VDE certification

Accessories: DRCBO 4 Hi 1

RCCB with overcurrent protection (RCBO)

Type B



RCCB with overcurrent protection FIC Type B NK, 3+N-pole

6000

AC/DC sensitive Type B, NK characteristics

Characteristic C

006 A

mod.	pack.	widths	units	Article No.	EAN (4014712...)
FIC 06/0,03/3+N-B NK		6	1	09958221	211278
FIC 06/0,30/3+N-B NK		6	1	09958231	211339

010 A

FIC 10/0,03/3+N-B NK		6	1	09958222	211285
FIC 10/0,30/3+N-B NK		6	1	09958232	211346

013 A

FIC 13/0,03/3+N-B NK		6	1	09958223	211292
FIC 13/0,30/3+N-B NK		6	1	09958233	211353

016 A

FIC 16/0,03/3+N-B NK		6	1	09958224	211308
FIC 16/0,30/3+N-B NK		6	1	09958234	211360

020 A

FIC 20/0,03/3+N-B NK		6	1	09958225	211315
FIC 20/0,30/3+N-B NK		6	1	09958235	211377

025 A

FIC 25/0,03/3+N-B NK		6	1	09958226	211322
FIC 25/0,30/3+N-B NK		6	1	09958236	211384

032 A

FIC 32/0,03/3+N-B NK		6	1	09958227	208032
FIC 32/0,30/3+N-B NK		6	1	09958237	208056

6 A - 10 A and 16 A - 32 A with VDE certification

Accessories: DRCBO 4 Hi 1

Type B



RCCB with overcurrent protection FIB Type B SK, 1+N-pole

6000

AC/DC sensitive Type B, SK characteristics

Characteristic B

006 A

mod.	pack.	widths	units	Article No.	EAN (4014712...)
FIB 06/0,03/1+N-B SK		4	1	09959101	210417
FIB 06/0,30/1+N-B SK		4	1	09959111	210479

010 A

FIB 10/0,03/1+N-B SK		4	1	09959102	210424
FIB 10/0,30/1+N-B SK		4	1	09959112	210486

013 A

FIB 13/0,03/1+N-B SK		4	1	09959103	210431
FIB 13/0,30/1+N-B SK		4	1	09959113	210493

016 A

FIB 16/0,03/1+N-B SK		4	1	09959104	209664
FIB 16/0,30/1+N-B SK		4	1	09959114	210509

020 A

FIB 20/0,03/1+N-B SK		4	1	09959105	210448
FIB 20/0,30/1+N-B SK		4	1	09959115	210516

025 A

FIB 25/0,03/1+N-B SK		4	1	09959106	210455
FIB 25/0,30/1+N-B SK		4	1	09959116	210523

032 A

FIB 32/0,03/1+N-B SK		4	1	09959107	210462
FIB 32/0,30/1+N-B SK		4	1	09959117	210530

6 A - 10 A and 16 A - 32 A with VDE certification

Accessories: DRCBO 4 Hi 1

RCCB with overcurrent protection (RCBO)

Type B



RCCB with overcurrent protection FIB Type B SK, 3+N-pole

6000 **KV G**

AC/DC sensitive Type B, SK characteristics

Characteristic B

006 A

FIB 06/0,03/3+N-B SK		6	1	09958101	210660
FIB 06/0,30/3+N-B SK		6	1	09958111	210714

010 A

FIB 10/0,03/3+N-B SK		6	1	09958102	210677
FIB 10/0,30/3+N-B SK		6	1	09958112	210721

013 A

FIB 13/0,03/3+N-B SK		6	1	09958103	210684
FIB 13/0,30/3+N-B SK		6	1	09958113	210738

016 A

FIB 16/0,03/3+N-B SK		6	1	09958104	207172
FIB 16/0,30/3+N-B SK		6	1	09958114	210745

020 A

FIB 20/0,03/3+N-B SK		6	1	09958105	210691
FIB 20/0,30/3+N-B SK		6	1	09958115	210752

025 A

FIB 25/0,03/3+N-B SK		6	1	09958106	210707
FIB 25/0,30/3+N-B SK		6	1	09958116	210769

032 A

FIB 32/0,03/3+N-B SK		6	1	09958107	207165
FIB 32/0,30/3+N-B SK		6	1	09958117	210776

6 A - 10 A and 16 A - 32 A with VDE certification

Accessories: DRCBO 4 Hi 1

Type B



RCCB with overcurrent protection FIC Type B SK, 1+N-pole

6000 **KV G**

AC/DC sensitive Type B, SK characteristics

Characteristic C

006 A

FIC 06/0,03/1+N-B SK		4	1	09959121	210547
FIC 06/0,30/1+N-B SK		4	1	09959131	210608

010 A

FIC 10/0,03/1+N-B SK		4	1	09959122	210554
FIC 10/0,30/1+N-B SK		4	1	09959132	210615

013 A

FIC 13/0,03/1+N-B SK		4	1	09959123	210561
FIC 13/0,30/1+N-B SK		4	1	09959133	210622

016 A

FIC 16/0,03/1+N-B SK		4	1	09959124	210202
FIC 16/0,30/1+N-B SK		4	1	09959134	208087

020 A

FIC 20/0,03/1+N-B SK		4	1	09959125	210578
FIC 20/0,30/1+N-B SK		4	1	09959135	210639

025 A

FIC 25/0,03/1+N-B SK		4	1	09959126	210585
FIC 25/0,30/1+N-B SK		4	1	09959136	210646

032 A

FIC 32/0,03/1+N-B SK		4	1	09959127	210592
FIC 32/0,30/1+N-B SK		4	1	09959137	210653

6 A - 10 A and 16 A - 32 A with VDE certification

Accessories: DRCBO 4 Hi 1

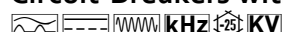
Circuit-Breakers with residual current device (CBR), Residual current monitors (RCM)

mod. pack.
widths units Article No. EAN
(4014712...)

Type B



Circuit-Breakers with residual current device DFL 8 B NK



AC/DC-sensitive Type B, increased surge current strength, fire protection up to 100 kHz

DFL 8 100-4/0,03-B NK	100 A, $I_{\Delta n} = 0.03$ A	1	09164783	153646
DFL 8 125-4/0,03-B NK	125 A, $I_{\Delta n} = 0.03$ A	1	09174783	153653
DFL 8 160-4/0,03-B NK	160 A, $I_{\Delta n} = 0.03$ A	1	09184783	153660
DFL 8 200-4/0,03-B NK	200 A, $I_{\Delta n} = 0.03$ A	1	09204783	153677
DFL 8 250-4/0,03-B NK	250 A, $I_{\Delta n} = 0.03$ A	1	09214783	153684

$I_{\Delta n} 0.03$ A, function range for test device 50-400 V, adjustment range for overload trip $0.8-1 \times I_n$, adjustment range for short-circuit trip $6-10 \times I_n$

Accessories: N 7 Housing

Type B



Circuit-Breakers with residual current device DFL 8 B NK X



AC/DC-sensitive Type B, increased surge current strength, fire protection up to 100 kHz

DFL 8 100-4/X-B NK	100 A	1	09169783	153592
DFL 8 125-4/X-B NK	125 A	1	09179783	153608
DFL 8 160-4/X-B NK	160 A	1	09189783	153615
DFL 8 200-4/X-B NK	200 A	1	09209783	153622
DFL 8 250-4/X-B NK	250 A	1	09219783	153639

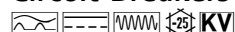
$I_{\Delta n}$ adjustable 0.3-0.5-1.0 A, fire protection at $I_{\Delta p} 0.3$ A up to 100 kHz, non-response lag time t_v adjustable 60/150/300/450 ms, function range for test device 50-400 V, adjustment range for overload trip $0.8-1 \times I_n$, adjustment range for short-circuit trip $6-10 \times I_n$

Accessories: N 7 Housing

Type B



Circuit-Breakers with residual current device DFL 8 B SK



AC/DC sensitive Type B, increased surge current strength

DFL 8 100-4/0,03-B SK	100 A, $I_{\Delta n} = 0.03$ A	1	09164784	153691
DFL 8 125-4/0,03-B SK	125 A, $I_{\Delta n} = 0.03$ A	1	09174784	153707
DFL 8 160-4/0,03-B SK	160 A, $I_{\Delta n} = 0.03$ A	1	09184784	153714
DFL 8 200-4/0,03-B SK	200 A, $I_{\Delta n} = 0.03$ A	1	09204784	153721
DFL 8 250-4/0,03-B SK	250 A, $I_{\Delta n} = 0.03$ A	1	09214784	153738

0-100 kHz, $I_{\Delta n} 0.03$ A, function range for test device 50-400 V, adjustment range for overload trip $0.8-1 \times I_n$, adjustment range for short-circuit trip $6-10 \times I_n$

Accessories: N 7 Housing

Type B



Circuit-Breakers with residual current device DFL 8 B SK X



AC/DC sensitive Type B, increased surge current strength

DFL 8 100-4/X-B SK	100 A	1	09169784	153547
DFL 8 125-4/X-B SK	125 A	1	09179784	153554
DFL 8 160-4/X-B SK	160 A	1	09189784	153561
DFL 8 200-4/X-B SK	200 A	1	09209784	153578
DFL 8 250-4/X-B SK	250 A	1	09219784	153585

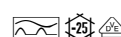
0-100 kHz, $I_{\Delta n}$ adjustable 0.3-0.5-1.0 A, non-response lag time t_v adjustable 60/150/300/450 ms (adjustable), adjustment range for overload trip $0.8-1 \times I_n$, adjustment range for short-circuit trip $6-10 \times I_n$, function range for test device 50-400 V

Accessories: N 7 Housing

Type A



Residual current monitors DRCM Type A



uses 10-way LED display to show the current residual current, external connection of transformer from DCT A series

DRCM 1A	0.03 A, 0.1 A, 0.3 A, 1 A, 3 A adjustable	4	1	09340250	199538
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Supply voltage 85 V - 264 V AC/50 - 60 Hz, residual response current tripping characteristic Type A 50 - 60 Hz, switching contact pre-alarm/main alarm 1 changeover contact each, 230 V/5 A ($\cos \phi > 0.9$)

		mod. widths	pack. units	Article No.	EAN (4014712...)
Residual current monitors DMD <i>with integrated residual current transformer, uses LED bar display to show the current residual current</i>					
DMD 2	0.03 A, 0.1 A, 0.3 A, 1 A adjustable	5	1	09352010	046115
Diameter of residual current transformer 25 mm, switching threshold adjustable 10-100% I _{Δn} in increments of 10%, response time adjustable 0.1 to 1 s in increments of 0.1 s, 1 potential-free changeover contact 250 V AC/2 A					
Accessories: DMD P					
Residual current monitors DCTR Type A <i>detects the current differential current (residual current) and reports the offset to the rated residual current by 4-20 mA signal</i>					
DCTR A 035/0,03-I	35 mm, I _{Δn} = 0.03 A	1		09342431	220409
DCTR A 035/0,30-I	35 mm, I _{Δn} = 0.3 A	1		09342631	220416
DCTR A 070/0,03-I	70 mm, I _{Δn} = 0.03 A	1		09342441	220423
DCTR A 070/0,30-I	70 mm, I _{Δn} = 0.3 A	1		09342641	220430
power supply 24 V DC, pre-alarm with CO contact, operation indication by LED					
Residual current monitors DRCM Type B+ <i>uses 10-way LED display to show the current residual current, external connection of transformers from DCT B+ series</i>					
DRCM 1 B+	0.03 A, 0.1 A, 0.3 A, 1 A, 3 A adjustable	4	1	09340300	202658
Supply voltage 85 V - 264 V AC/50 - 60 Hz, residual response current tripping characteristic Type B (DC to 100 kHz), response time at 1 x I _{Δn} adjustable 0.1 s to 1 s, switching contact pre-alarm/main alarm 1 changeover contact each 230 V AC/5 A (cos φ 0.9)					
Accessories: DTCC-RJ45					
Residual current transformers DCT A <i>for combination with a DMRCD 1A/DRCM 1A</i>					
DCT A-020	20 mm	1		09340253	202702
DCT A-030	30 mm	1		09340254	202719
DCT A-035	35 mm	1		09340255	202726
DCT A-070	70 mm	1		09340256	202733
DCT A-105	105 mm	1		09340257	202740
DCT A-140	140 mm	1		09340258	202825
DCT A-210	210 mm	1		09340259	202757
pulsating AC/DC-sensitive Type A					
Accessories: DCT Clip A					
Residual current transformers DWP <i>for combination with the DRP residual current control relay</i>					
DWP 035	35 mm	1		09340111	031784
DWP 070	70 mm	1		09340112	031791
DWP 105	105 mm	1		09340113	031807
DWP 140	140 mm	1		09340114	031814
pulsating AC/DC-sensitive Type A					

Residual current transformers, Miniature circuit-breakers (MCB)

Type A, AC



Residual current transformers MFIW

for combination with the MFR residual current control relay

up to 125 A

MFIW 035/0,3	35 mm	1	09340201	013131
MFIW 035/0,5	35 mm	1	09340202	013148
MFIW 035/1,0	35 mm	1	09340211	013155

up to 200 A

MFIW 070/0,3	70 mm	1	09340203	013162
MFIW 070/0,5	70 mm	1	09340204	013179
MFIW 070/1,0	70 mm	1	09340212	013186

up to 250 A

MFIW 105/0,3	105 mm	1	09340205	013193
MFIW 105/0,5	105 mm	1	09340206	013209
MFIW 105/1,0	105 mm	1	09340213	013216

up to 350 A

MFIW 140/0,3	140 mm	1	09340207	013223
MFIW 140/0,5	140 mm	1	09340208	013230
MFIW 140/1,0	140 mm	1	09340214	013247
pulsating AC/DC-sensitive Type A				

Type B+



Residual current transformers DCT B+

for combination with a DMRCD 1B+/DRCM 1B+

DCT 035 B+	35 mm	1	09340303	202788
DCT 070 B+	70 mm	1	09340305	202795
DCT 105 B+	105 mm	1	09340307	202801

AC/DC sensitive Type B+

Accessories: DTCC-1, DTCC-2,5, DTCC-5, DTCC-10, DTCC-RJ45

6 kA



Miniature circuit-breakers DLS 6h, B characteristic, one-pole 6000

for commercial sector applications, 6 kA

B-Characteristic

one-pole

DLS 6h B06-1	6 A	1	1/12	09914019	161726
DLS 6h B10-1	10 A	1	1/12	09914021	161740
DLS 6h B13-1	13 A	1	1/12	09914022	161757
DLS 6h B16-1	16 A	1	1/12	09914023	161764
DLS 6h B20-1	20 A	1	1/12	09914024	161771
DLS 6h B25-1	25 A	1	1/12	09914025	161788
DLS 6h B32-1	32 A	1	1/12	09914026	161795

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

6 kA



Miniature circuit-breakers DLS 6h, B characteristic, three-pole 6000

for commercial sector applications, 6 kA

B-Characteristic

three-pole

DLS 6h B06-3	6 A	3	1/4	09914109	162389
DLS 6h B10-3	10 A	3	1/4	09914111	162402
DLS 6h B13-3	13 A	3	1/4	09914112	162419
DLS 6h B16-3	16 A	3	1/4	09914113	162426
DLS 6h B20-3	20 A	3	1/4	09914114	162433
DLS 6h B25-3	25 A	3	1/4	09914115	162440
DLS 6h B32-3	32 A	3	1/4	09914116	162457

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

mod. pack.
widths units

Article No.

EAN
(4014712...)

6 kA



Miniature circuit-breakers DLS 6h, C characteristic, one-pole

for commercial sector applications, 6 kA

C-Characteristic

one-pole

DLS 6h C06-1	6 A	1	1/12	09914199	163041
DLS 6h C10-1	10 A	1	1/12	09914201	163065
DLS 6h C13-1	13 A	1	1/12	09914202	163072
DLS 6h C16-1	16 A	1	1/12	09914203	163089
DLS 6h C20-1	20 A	1	1/12	09914204	163096
DLS 6h C25-1	25 A	1	1/12	09914205	163102
DLS 6h C32-1	32 A	1	1/12	09914206	163119

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

6 kA



Miniature circuit-breakers DLS 6h, C characteristic, three-pole

for commercial sector applications, 6 kA

C-Characteristic

three-pole

DLS 6h C06-3	6 A	3	1/4	09914289	163706
DLS 6h C10-3	10 A	3	1/4	09914291	163720
DLS 6h C13-3	13 A	3	1/4	09914292	163737
DLS 6h C16-3	16 A	3	1/4	09914293	163744
DLS 6h C20-3	20 A	3	1/4	09914294	163751
DLS 6h C25-3	25 A	3	1/4	09914295	163768
DLS 6h C32-3	32 A	3	1/4	09914296	163775

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

6 kA



Miniature circuit-breakers DLS 6hsl, B characteristic, one-pole

for workshops, screw-less, 6 kA

B-Characteristic

one-pole

DLS 6hsl B16-1	16 A	1	1/12	09917023	189485
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Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, B characteristic, one-pole 10000 1-25 0.6

for industrial facilities, 10 kA

B-Characteristic

one-pole

				mod. widths	pack. units	Article No.	EAN (4014712...)
DLS 6i B02-1	2 A	1	1/12	09916013	169586		
DLS 6i B04-1	4 A	1	1/12	09916017	169623		
DLS 6i B06-1	6 A	1	1/12	09916019	169647		
DLS 6i B08-1	8 A	1	1/12	09916020	169654		
DLS 6i B10-1	10 A	1	1/12	09916021	169661		
DLS 6i B13-1	13 A	1	1/12	09916022	169678		
DLS 6i B16-1	16 A	1	1/12	09916023	169685		
DLS 6i B20-1	20 A	1	1/12	09916024	169692		
DLS 6i B25-1	25 A	1	1/12	09916025	169708		
DLS 6i B32-1	32 A	1	1/12	09916026	169715		
DLS 6i B40-1	40 A	1	1/12	09916027	169722		
DLS 6i B50-1	50 A	1	1/12	09916028	169739		
DLS 6i B63-1	63 A	1	1/12	09916029	169746		

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, B characteristic, one-pole +N 10000 1-25 0.6

for industrial facilities, 10 kA

B-Characteristic

one-pole +N

				mod. widths	pack. units	Article No.	EAN (4014712...)
DLS 6i B06-1+N	6 A	2	1/6	09916049	169869		
DLS 6i B10-1+N	10 A	2	1/6	09916051	169883		
DLS 6i B13-1+N	13 A	2	1/6	09916052	169890		
DLS 6i B16-1+N	16 A	2	1/6	09916053	169906		
DLS 6i B20-1+N	20 A	2	1/6	09916054	169913		
DLS 6i B25-1+N	25 A	2	1/6	09916055	169920		
DLS 6i B32-1+N	32 A	2	1/6	09916056	169937		
DLS 6i B40-1+N	40 A	2	1/6	09916057	169944		
DLS 6i B50-1+N	50 A	2	1/6	09916058	169951		
DLS 6i B63-1+N	63 A	2	1/6	09916059	169968		

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, B characteristic, two-pole 10000 1-25 0.6

for industrial facilities, 10 kA

B-Characteristic

two-pole

				mod. widths	pack. units	Article No.	EAN (4014712...)
DLS 6i B06-2	6 A	2	1/6	09916079	170087		
DLS 6i B10-2	10 A	2	1/6	09916081	170100		
DLS 6i B13-2	13 A	2	1/6	09916082	170117		
DLS 6i B16-2	16 A	2	1/6	09916083	170124		
DLS 6i B20-2	20 A	2	1/6	09916084	170131		
DLS 6i B25-2	25 A	2	1/6	09916085	170148		
DLS 6i B32-2	32 A	2	1/6	09916086	170155		
DLS 6i B40-2	40 A	2	1/6	09916087	170162		
DLS 6i B50-2	50 A	2	1/6	09916088	170179		
DLS 6i B63-2	63 A	2	1/6	09916089	170186		

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230



10 kA



Miniature circuit-breakers (MCB)

Miniature circuit-breakers DLS 6i, B characteristic, three-pole   
for industrial facilities, 10 kA

B-Characteristic					
three-pole					
DLS 6i B06-3	6 A	3	1/4	09916109	170308
DLS 6i B10-3	10 A	3	1/4	09916111	170322
DLS 6i B13-3	13 A	3	1/4	09916112	170339
DLS 6i B16-3	16 A	3	1/4	09916113	170346
DLS 6i B20-3	20 A	3	1/4	09916114	170353
DLS 6i B25-3	25 A	3	1/4	09916115	170360
DLS 6i B32-3	32 A	3	1/4	09916116	170377
DLS 6i B40-3	40 A	3	1/4	09916117	170384
DLS 6i B50-3	50 A	3	1/4	09916118	170391
DLS 6i B63-3	63 A	3	1/4	09916119	170407

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA

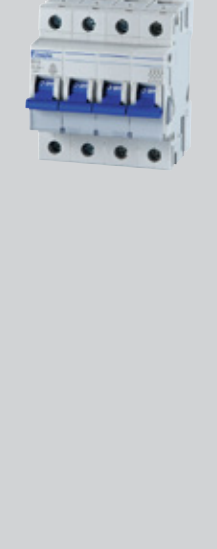


Miniature circuit-breakers DLS 6i, B characteristic, three-pole +N   
for industrial facilities, 10 kA

B-Characteristic					
<i>three-pole +N</i>					
DLS 6i B06-3+N	6 A	4	1/3	09916139	170520
DLS 6i B10-3+N	10 A	4	1/3	09916141	170544
DLS 6i B13-3+N	13 A	4	1/3	09916142	170551
DLS 6i B16-3+N	16 A	4	1/3	09916143	170568
DLS 6i B20-3+N	20 A	4	1/3	09916144	170575
DLS 6i B25-3+N	25 A	4	1/3	09916145	170582
DLS 6i B32-3+N	32 A	4	1/3	09916146	170599
DLS 6i B40-3+N	40 A	4	1/3	09916147	170605
DLS 6i B50-3+N	50 A	4	1/3	09916148	170612
DLS 6i B63-3+N	63 A	4	1/3	09916149	170629

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, B characteristic, four-pole   
for industrial facilities, 10 kA

B-Characteristic					
<i>four-pole</i>					
DLS 6i B06-4	6 A	4	1/3	09916169	170742
DLS 6i B08-4	8 A	4	1/3	09916170	170759
DLS 6i B10-4	10 A	4	1/3	09916171	170766
DLS 6i B13-4	13 A	4	1/3	09916172	170773
DLS 6i B16-4	16 A	4	1/3	09916173	170780
DLS 6i B20-4	20 A	4	1/3	09916174	170797
DLS 6i B25-4	25 A	4	1/3	09916175	170803
DLS 6i B32-4	32 A	4	1/3	09916176	170810
DLS 6i B40-4	40 A	4	1/3	09916177	170827
DLS 6i B50-4	50 A	4	1/3	09916178	170834
DLS 6i B63-4	63 A	4	1/3	09916179	170841

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, C characteristic, one-pole

for industrial facilities, 10 kA

C-Characteristic

one-pole

			mod. widths	pack. units	Article No.	EAN (4014712...)
DLS 6i C01-1	1 A		1	1/12	09916191	170889
DLS 6i C02-1	2 A		1	1/12	09916193	170902
DLS 6i C03-1	3 A		1	1/12	09916195	170926
DLS 6i C04-1	4 A		1	1/12	09916197	170940
DLS 6i C06-1	6 A		1	1/12	09916199	170964
DLS 6i C08-1	8 A		1	1/12	09916200	170971
DLS 6i C10-1	10 A		1	1/12	09916201	170988
DLS 6i C13-1	13 A		1	1/12	09916202	170995
DLS 6i C16-1	16 A		1	1/12	09916203	171008
DLS 6i C20-1	20 A		1	1/12	09916204	171015
DLS 6i C25-1	25 A		1	1/12	09916205	171022
DLS 6i C32-1	32 A		1	1/12	09916206	171039
DLS 6i C40-1	40 A		1	1/12	09916207	171046
DLS 6i C50-1	50 A		1	1/12	09916208	171053
DLS 6i C63-1	63 A		1	1/12	09916209	171060

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, C characteristic, one-pole +N

for industrial facilities, 10 kA

C-Characteristic

one-pole +N

			mod. widths	pack. units	Article No.	EAN (4014712...)
DLS 6i C02-1+N	2 A		2	1/6	09916223	171121
DLS 6i C03-1+N	3 A		2	1/6	09916225	171145
DLS 6i C04-1+N	4 A		2	1/6	09916227	171169
DLS 6i C06-1+N	6 A		2	1/6	09916229	171183
DLS 6i C08-1+N	8 A		2	1/6	09916230	171190
DLS 6i C10-1+N	10 A		2	1/6	09916231	171206
DLS 6i C13-1+N	13 A		2	1/6	09916232	171213
DLS 6i C16-1+N	16 A		2	1/6	09916233	171220
DLS 6i C20-1+N	20 A		2	1/6	09916234	171237
DLS 6i C25-1+N	25 A		2	1/6	09916235	171244
DLS 6i C32-1+N	32 A		2	1/6	09916236	171251
DLS 6i C40-1+N	40 A		2	1/6	09916237	171268
DLS 6i C50-1+N	50 A		2	1/6	09916238	171275
DLS 6i C63-1+N	63 A		2	1/6	09916239	171282

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, C characteristic, two-pole 10000 1-25 0.6

for industrial facilities, 10 kA

C-Characteristic

two-pole

DLS 6i C02-2	2 A	2	1/6	09916253	171343
DLS 6i C03-2	3 A	2	1/6	09916255	171367
DLS 6i C04-2	4 A	2	1/6	09916257	171381
DLS 6i C06-2	6 A	2	1/6	09916259	171404
DLS 6i C08-2	8 A	2	1/6	09916260	171411
DLS 6i C10-2	10 A	2	1/6	09916261	171428
DLS 6i C13-2	13 A	2	1/6	09916262	171435
DLS 6i C16-2	16 A	2	1/6	09916263	171442
DLS 6i C20-2	20 A	2	1/6	09916264	171459
DLS 6i C25-2	25 A	2	1/6	09916265	171466
DLS 6i C32-2	32 A	2	1/6	09916266	171473
DLS 6i C40-2	40 A	2	1/6	09916267	171480
DLS 6i C50-2	50 A	2	1/6	09916268	171497
DLS 6i C63-2	63 A	2	1/6	09916269	171503

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, C characteristic, three-pole 10000 1-25 0.6

for industrial facilities, 10 kA

C-Characteristic

three-pole

DLS 6i C02-3	2 A	3	1/4	09916283	171565
DLS 6i C03-3	3 A	3	1/4	09916285	171589
DLS 6i C04-3	4 A	3	1/4	09916287	171602
DLS 6i C06-3	6 A	3	1/4	09916289	171626
DLS 6i C08-3	8 A	3	1/4	09916290	171633
DLS 6i C10-3	10 A	3	1/4	09916291	171640
DLS 6i C13-3	13 A	3	1/4	09916292	171657
DLS 6i C16-3	16 A	3	1/4	09916293	171664
DLS 6i C20-3	20 A	3	1/4	09916294	171671
DLS 6i C25-3	25 A	3	1/4	09916295	171688
DLS 6i C32-3	32 A	3	1/4	09916296	171695
DLS 6i C40-3	40 A	3	1/4	09916297	171701
DLS 6i C50-3	50 A	3	1/4	09916298	171718
DLS 6i C63-3	63 A	3	1/4	09916299	171725

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, C characteristic, three-pole +N



for industrial facilities, 10 kA

C-Characteristic

three-pole +N

DLS 6i C02-3+N	2 A	4	1/3	09916313	171787	
DLS 6i C03-3+N	3 A	4	1/3	09916315	171800	
DLS 6i C04-3+N	4 A	4	1/3	09916317	171824	
DLS 6i C06-3+N	6 A	4	1/3	09916319	171848	
DLS 6i C08-3+N	8 A	4	1/3	09916320	171855	
DLS 6i C10-3+N	10 A	4	1/3	09916321	171862	
DLS 6i C13-3+N	13 A	4	1/3	09916322	171879	
DLS 6i C16-3+N	16 A	4	1/3	09916323	171886	
DLS 6i C20-3+N	20 A	4	1/3	09916324	171893	
DLS 6i C25-3+N	25 A	4	1/3	09916325	171909	
DLS 6i C32-3+N	32 A	4	1/3	09916326	171916	
DLS 6i C40-3+N	40 A	4	1/3	09916327	171923	
DLS 6i C50-3+N	50 A	4	1/3	09916328	171930	
DLS 6i C63-3+N	63 A	4	1/3	09916329	171947	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, C characteristic, four-pole

for industrial facilities, 10 kA

C-Characteristic

four-pole

DLS 6i C02-4	2 A	4	1/3	09916343	172005	
DLS 6i C03-4	3 A	4	1/3	09916345	172029	
DLS 6i C04-4	4 A	4	1/3	09916347	172043	
DLS 6i C06-4	6 A	4	1/3	09916349	172067	
DLS 6i C08-4	8 A	4	1/3	09916350	172074	
DLS 6i C10-4	10 A	4	1/3	09916351	172081	
DLS 6i C13-4	13 A	4	1/3	09916352	172098	
DLS 6i C16-4	16 A	4	1/3	09916353	172104	
DLS 6i C20-4	20 A	4	1/3	09916354	172111	
DLS 6i C25-4	25 A	4	1/3	09916355	172128	
DLS 6i C32-4	32 A	4	1/3	09916356	172135	
DLS 6i C40-4	40 A	4	1/3	09916357	172142	
DLS 6i C50-4	50 A	4	1/3	09916358	172159	
DLS 6i C63-4	63 A	4	1/3	09916359	172166	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, D characteristic, one-pole

for industrial facilities, 10 kA

D-Characteristic

one-pole

DLS 6i D04-1	4 A	1	1/12	09916377	172265	
DLS 6i D06-1	6 A	1	1/12	09916379	172289	
DLS 6i D08-1	8 A	1	1/12	09916380	172296	
DLS 6i D10-1	10 A	1	1/12	09916381	172302	
DLS 6i D13-1	13 A	1	1/12	09916382	172319	
DLS 6i D16-1	16 A	1	1/12	09916383	172326	
DLS 6i D20-1	20 A	1	1/12	09916384	172333	
DLS 6i D25-1	25 A	1	1/12	09916385	172340	
DLS 6i D32-1	32 A	1	1/12	09916386	172357	
DLS 6i D40-1	40 A	1	1/12	09916387	172364	
DLS 6i D50-1	50 A	1	1/12	09916388	172371	
DLS 6i D63-1	63 A	1	1/12	09916389	172388	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, D characteristic, one-pole +N

for industrial facilities, 10 kA

D-Characteristic

one-pole +N

DLS 6i D06-1+N	6 A	2	1/6	09916409	172500	
DLS 6i D08-1+N	8 A	2	1/6	09916410	172517	
DLS 6i D10-1+N	10 A	2	1/6	09916411	172524	
DLS 6i D13-1+N	13 A	2	1/6	09916412	172531	
DLS 6i D16-1+N	16 A	2	1/6	09916413	172548	
DLS 6i D20-1+N	20 A	2	1/6	09916414	172555	
DLS 6i D25-1+N	25 A	2	1/6	09916415	172562	
DLS 6i D32-1+N	32 A	2	1/6	09916416	172579	
DLS 6i D40-1+N	40 A	2	1/6	09916417	172586	
DLS 6i D50-1+N	50 A	2	1/6	09916418	172593	
DLS 6i D63-1+N	63 A	2	1/6	09916419	172609	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, D characteristic, two-pole 10000 125 6E

for industrial facilities, 10 kA

D-Characteristic

two-pole

DLS 6i D06-2	6 A	2	1/6	09916439	172722	
DLS 6i D08-2	8 A	2	1/6	09916440	172739	
DLS 6i D10-2	10 A	2	1/6	09916441	172746	
DLS 6i D13-2	13 A	2	1/6	09916442	172753	
DLS 6i D16-2	16 A	2	1/6	09916443	172760	
DLS 6i D20-2	20 A	2	1/6	09916444	172777	
DLS 6i D25-2	25 A	2	1/6	09916445	172784	
DLS 6i D32-2	32 A	2	1/6	09916446	172791	
DLS 6i D40-2	40 A	2	1/6	09916447	172807	
DLS 6i D50-2	50 A	2	1/6	09916448	172814	
DLS 6i D63-2	63 A	2	1/6	09916449	172821	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, D characteristic, three-pole 10000 125 6E

for industrial facilities, 10 kA

D-Characteristic

three-pole

DLS 6i D06-3	6 A	3	1	09916469	172944	
DLS 6i D08-3	8 A	3	1/4	09916470	172951	
DLS 6i D10-3	10 A	3	1	09916471	172968	
DLS 6i D13-3	13 A	3	1/4	09916472	172975	
DLS 6i D16-3	16 A	3	1/4	09916473	172982	
DLS 6i D20-3	20 A	3	1	09916474	172999	
DLS 6i D25-3	25 A	3	1	09916475	173002	
DLS 6i D32-3	32 A	3	1/4	09916476	173019	
DLS 6i D40-3	40 A	3	1/4	09916477	173026	
DLS 6i D50-3	50 A	3	1/4	09916478	173033	
DLS 6i D63-3	63 A	3	1/4	09916479	173040	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, D characteristic, three-pole +N 10000 125 6E

for industrial facilities, 10 kA

D-Characteristic

three-pole +N

DLS 6i D06-3+N	6 A	4	1/3	09916499	173163	
DLS 6i D08-3+N	8 A	4	1/3	09916500	173170	
DLS 6i D10-3+N	10 A	4	1/3	09916501	173187	
DLS 6i D13-3+N	13 A	4	1/3	09916502	173194	
DLS 6i D16-3+N	16 A	4	1/3	09916503	173200	
DLS 6i D20-3+N	20 A	4	1/3	09916504	173217	
DLS 6i D25-3+N	25 A	4	1/3	09916505	173224	
DLS 6i D32-3+N	32 A	4	1/3	09916506	173231	
DLS 6i D40-3+N	40 A	4	1/3	09916507	173248	
DLS 6i D50-3+N	50 A	4	1/3	09916508	173255	
DLS 6i D63-3+N	63 A	4	1/3	09916509	173262	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230



10 kA



Miniature circuit-breakers (MCB)

Miniature circuit-breakers DLS 6i, D characteristic, four-pole 10000 1-25 10kA
for industrial facilities, 10 kA

D-Characteristic
four-pole

DLS 6i D06-4	6 A	4	1/3	09916529	173385
DLS 6i D08-4	8 A	4	1/3	09916530	173392
DLS 6i D10-4	10 A	4	1/3	09916531	173408
DLS 6i D13-4	13 A	4	1/3	09916532	173415
DLS 6i D16-4	16 A	4	1/3	09916533	173422
DLS 6i D20-4	20 A	4	1/3	09916534	173439
DLS 6i D25-4	25 A	4	1/3	09916535	173446
DLS 6i D32-4	32 A	4	1/3	09916536	173453
DLS 6i D40-4	40 A	4	1/3	09916537	173460
DLS 6i D50-4	50 A	4	1/3	09916538	173477
DLS 6i D63-4	63 A	4	1/3	09916539	173484

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, K characteristic, one-pole 10000 1-25 10kA
for industrial facilities, 10 kA

K-Characteristic
one-pole

DLS 6i K02-1	2 A	1	1/12	09916553	173545
DLS 6i K04-1	4 A	1	1/12	09916557	173583
DLS 6i K06-1	6 A	1	1/12	09916559	173606
DLS 6i K08-1	8 A	1	1/12	09916560	173613
DLS 6i K10-1	10 A	1	1/12	09916561	173620
DLS 6i K13-1	13 A	1	1/12	09916562	173637
DLS 6i K16-1	16 A	1	1/12	09916563	173644
DLS 6i K20-1	20 A	1	1/12	09916564	173651
DLS 6i K25-1	25 A	1	1/12	09916565	173668
DLS 6i K32-1	32 A	1	1/12	09916566	173675
DLS 6i K40-1	40 A	1	1/12	09916567	173682
DLS 6i K50-1	50 A	1	1/12	09916568	173699
DLS 6i K63-1	63 A	1	1/12	09916569	173705

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, K characteristic, one-pole +N 10000 1-25

for industrial facilities, 10 kA

K-Characteristic

one-pole +N

DLS 6i K06-1+N	6 A	2	1/6	09916589	173828	
DLS 6i K08-1+N	8 A	2	1/6	09916590	173835	
DLS 6i K10-1+N	10 A	2	1/6	09916591	173842	
DLS 6i K13-1+N	13 A	2	1/6	09916592	173859	
DLS 6i K16-1+N	16 A	2	1/6	09916593	173866	
DLS 6i K20-1+N	20 A	2	1/6	09916594	173873	
DLS 6i K25-1+N	25 A	2	1/6	09916595	173880	
DLS 6i K32-1+N	32 A	2	1/6	09916596	173897	
DLS 6i K40-1+N	40 A	2	1/6	09916597	173903	
DLS 6i K50-1+N	50 A	2	1/6	09916598	173910	
DLS 6i K63-1+N	63 A	2	1/6	09916599	173927	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, K characteristic, two-pole 10000 1-25

for industrial facilities, 10 kA

K-Characteristic

two-pole

DLS 6i K06-2	6 A	2	1/6	09916619	174047	
DLS 6i K08-2	8 A	2	1/6	09916620	174054	
DLS 6i K10-2	10 A	2	1/6	09916621	174061	
DLS 6i K13-2	13 A	2	1/6	09916622	174078	
DLS 6i K16-2	16 A	2	1/6	09916623	174085	
DLS 6i K20-2	20 A	2	1/6	09916624	174092	
DLS 6i K25-2	25 A	2	1/6	09916625	174108	
DLS 6i K32-2	32 A	2	1/6	09916626	174115	
DLS 6i K40-2	40 A	2	1/6	09916627	174122	
DLS 6i K50-2	50 A	2	1/6	09916628	174139	
DLS 6i K63-2	63 A	2	1/6	09916629	174146	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, K characteristic, three-pole 10000 1-25

for industrial facilities, 10 kA

K-Characteristic

three-pole

DLS 6i K06-3	6 A	3	1/4	09916649	174269	
DLS 6i K08-3	8 A	3	1/4	09916650	174276	
DLS 6i K10-3	10 A	3	1/4	09916651	174283	
DLS 6i K13-3	13 A	3	1/4	09916652	174290	
DLS 6i K16-3	16 A	3	1/4	09916653	174306	
DLS 6i K20-3	20 A	3	1/4	09916654	174313	
DLS 6i K25-3	25 A	3	1/4	09916655	174320	
DLS 6i K32-3	32 A	3	1/4	09916656	174337	
DLS 6i K40-3	40 A	3	1/4	09916657	174344	
DLS 6i K50-3	50 A	3	1/4	09916658	174351	
DLS 6i K63-3	63 A	3	1/4	09916659	174368	

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)

10 kA



Miniature circuit-breakers DLS 6i, K characteristic, three-pole +N

10000 125

for industrial facilities, 10 kA

K-Characteristic

three-pole +N

mod.	pack.	widths	units	Article No.	EAN (4014712...)
DLS 6i K06-3+N	6 A	4	1/3	09916679	174481
DLS 6i K08-3+N	8 A	4	1/3	09916680	174498
DLS 6i K10-3+N	10 A	4	1/3	09916681	174504
DLS 6i K13-3+N	13 A	4	1/3	09916682	174511
DLS 6i K16-3+N	16 A	4	1/3	09916683	174528
DLS 6i K20-3+N	20 A	4	1/3	09916684	174535
DLS 6i K25-3+N	25 A	4	1/3	09916685	174542
DLS 6i K32-3+N	32 A	4	1/3	09916686	174559
DLS 6i K40-3+N	40 A	4	1/3	09916687	174566
DLS 6i K50-3+N	50 A	4	1/3	09916688	174573
DLS 6i K63-3+N	63 A	4	1/3	09916689	174580

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

10 kA



Miniature circuit-breakers DLS 6i, K characteristic, four-pole

10000 125

for industrial facilities, 10 kA

K-Characteristic

four-pole

mod.	pack.	widths	units	Article No.	EAN (4014712...)
DLS 6i K06-4	6 A	4	1/3	09916709	174702
DLS 6i K08-4	8 A	4	1/3	09916710	174719
DLS 6i K10-4	10 A	4	1/3	09916711	174726
DLS 6i K13-4	13 A	4	1/3	09916712	174733
DLS 6i K16-4	16 A	4	1/3	09916713	174740
DLS 6i K20-4	20 A	4	1/3	09916714	174757
DLS 6i K25-4	25 A	4	1/3	09916715	174764
DLS 6i K32-4	32 A	4	1/3	09916716	174771
DLS 6i K40-4	40 A	4	1/3	09916717	174788
DLS 6i K50-4	50 A	4	1/3	09916718	174795
DLS 6i K63-4	63 A	4	1/3	09916719	174801

Accessories: DASA 230, DASA 24, Label sheet DLS 6, DHi 3, DHi 4, DHi 5, DHi 6, DHi 8, DHi-S10, DHi-S11, Labelling Software DLS 6, DFS 2/4, DUSA 230

Miniature circuit-breakers (MCB)



Miniature circuit-breakers DMCB 2

for industrial facilities, up to 25 kA

C-Characteristic

one-pole

DMCB 2 C080-1	80 A, 20 kA	NEW	1.5	1/12	09915070	225602
DMCB 2 C100-1	100 A, 20 kA	NEW	1.5	1/12	09915071	225619
DMCB 2 C125-1	125 A, 15 kA	NEW	1.5	1/12	09915072	225626

two-pole

DMCB 2 C080-2	80 A, 20 kA	NEW	3	1/6	09915073	225633
DMCB 2 C100-2	100 A, 20 kA	NEW	3	1/6	09915074	225640
DMCB 2 C125-2	125 A, 15 kA	NEW	3	1/6	09915075	225657

three-pole

DMCB 2 C063-3	63 A, 25 kA	NEW	4.5	1/4	09915076	225664
DMCB 2 C080-3	80 A, 20 kA	NEW	4.5	1/4	09915077	225671
DMCB 2 C100-3	100 A, 20 kA	NEW	4.5	1/4	09915078	225688
DMCB 2 C125-3	125 A, 15 kA	NEW	4.5	1/4	09915079	225695

three-pole +N

DMCB 2 C080-3N	80 A, 20 kA	NEW	6	1/3	09915083	225732
DMCB 2 C100-3N	100 A, 20 kA	NEW	6	1/3	09915084	225749
DMCB 2 C125-3N	125 A, 15 kA	NEW	6	1/3	09915085	225756

four-pole

DMCB 2 C080-4	80 A, 20 kA	NEW	6	1/3	09915080	225701
DMCB 2 C100-4	100 A, 20 kA	NEW	6	1/3	09915081	225718
DMCB 2 C125-4	125 A, 15 kA	NEW	6	1/3	09915082	225725

Accessories: DMCB 2 ASA 1, DMCB 2 Hi 1



Miniature circuit-breakers ELS 3

Compact design

B-Characteristic

one-pole +N

ELS 3 B06/1+N	6 A		1	1	09915021	137363
ELS 3 B10/1+N	10 A		1	1	09915022	137370
ELS 3 B13/1+N	13 A		1	1	09915023	137387
ELS 3 B16/1+N	16 A		1	1	09915024	137394
ELS 3 B20/1+N	20 A		1	1	09915025	137400
ELS 3 B25/1+N	25 A		1	1	09915026	137417
ELS 3 B32/1+N	32 A		1	1	09915027	137424
ELS 3 B40/1+N	40 A		1	1	09915028	137769

C-Characteristic

one-pole +N

ELS 3 C02/1+N	2 A		1	1	09915029	137721
ELS 3 C04/1+N	4 A		1	1	09915030	137653
ELS 3 C06/1+N	6 A		1	1	09915031	137431
ELS 3 C10/1+N	10 A		1	1	09915032	137677
ELS 3 C13/1+N	13 A		1	1	09915033	137455
ELS 3 C16/1+N	16 A		1	1	09915034	137684
ELS 3 C20/1+N	20 A		1	1	09915035	137707
ELS 3 C25/1+N	25 A		1	1	09915036	137486
ELS 3 C32/1+N	32 A		1	1	09915037	137493
ELS 3 C40/1+N	40 A		1	1	09915038	137776

Accessories: FAM 1, Hi 11

Automatic reclosing devices (ARD), Wiring components



Automatic reclosing devices DFA

Remote actuation for residual current circuit-breakers of series DFS 2 and DFS 4

		mod. widths	pack. units	Article No.	EAN (4014712...)
DFA 2	24 V AC/24 V DC	4	1	09100110	205598
DFA 2-1	24 V AC/24 V DC	4	1	09100112	208339
DFA 2-2	24 V AC/24 V DC	4	1	09100113	208346
DFA 2-3	230 V AC	4	1	09100114	208445
DFA 2-4	230 V AC	4	1	09100115	211803

DFA 2-3/2-4: Resistance cable DFA 2-RC is required for remote tripping with rated residual current $I_{\Delta n}$ of the connected residual current circuit-breaker.

Accessories: DFA-DI, RK 24, NT 24-0750, NT 24-2000, DFA 2 - RC 030, DFA 2 - RC 100, DFA 2 - RC 300



Wiring components FI/LS busbars

Busbars for residual current operated and miniature circuit-breakers, eurovario system as per EN 60664-1

one-pole

EV-S G 1+Hi.2.70	L1-Hi x 2 = 2	2	1	09920164	045538
EV-S G 1+Hi.6.70	L1-Hi x 6 = 6	6	1	09920165	045545
EV-S G 1+Hi.8.70	L1-Hi x 8 = 8	8	1	09920166	045552
EV-S G 1.12.70	L1 x 12 = 12	12	1	09920111	021518
EV-S G 1.2.70	L1 x 2 = 2	2	1	09920158	021495
EV-S G 1.3.70	L1 x 3 = 3	3	1	09920112	118959
EV-S G 1.6.70	L1 x 6 = 6	6	1	09920110	021501

two-pole

EV-S G 2+Hi.10.120	L1, L2/N-Hi x 5 = 10	10	1	09920174	045736
EV-S G 2+Hi.4.120	L1, L2/N-Hi x 2 = 4	4	1	09920172	045712
EV-S G 2+Hi.6.120	L1, L2/N-Hi x 3 = 6	6	1	09920173	045729
EV-S G 2.12.120	L1, L2/N x 6 = 12	12	1	09920115	021563
EV-S G 2.4.120	L1, L2/N x 2 = 4	4	1	09920171	045675
EV-S G 2.6.120	L1, L2/N x 3 = 6	6	1	09920114	021556
EV-S G 2.8.120	L1, L2/N x 4 = 8	8	1	09920303	134584

three-pole

EV-S G 3.1+N.12.120	L1+N, L2+N, L3+N x 2 = 12	12	1	09920182	045958
EV-S G 3.1+N.18.120	L1+N, L2+N, L3+N x 3 = 18	18	1	09920183	045965
EV-S G 4.12.120	L1, L2, L3, N x 3 = 12	12	1	09920123	021648
EV-S G 4.12.120 L	N, L1, L2, L3 x 3 = 12	12	1	09920125	123816
EV-S G 4.8.120	L1, L2, L3, N x 2 = 8	8	1	09920122	021631

with recess N left

EV-S G 3.11.120	L1, L2, L3 x 3 + L1, L2 = 11	11	1	09920190	103528
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with recess N right

EV-S G 3/N.5.120	L1, L2, L3-N + L2, L3, L1, L2, L3	9	1	09920184	045972
EV-S G 3/N.8.120	L1, L2, L3-N + L2, L3 + L1, L2, L3 x 2	12	1	09920185	045989

without recess

EV-S G 3+Hi.12.120	L1, L2, L3-Hi x 4 = 12	12	1	09920177	045828
EV-S G 3+Hi.6.120	L1, L2, L3-Hi x 2 = 6	6	1	09920176	045811
EV-S G 3.1+Hi.6.120	L1-Hi, L2-Hi, L3-Hi x 2 = 6	6	1	09920178	045835
EV-S G 3.1+Hi.8.120	L1-Hi, L2-Hi, L3-Hi x 2 + L1-Hi, L2-Hi = 8	8	1	09920179	045842
EV-S G 3.12.120	L1, L2, L3 x 4 = 12	12	1	09920119	021600
EV-S G 3.16.120	L1, L2, L3 x 4 + L1, L2 + 1 = 16	16	1	09920187	077829
EV-S G 3.6.120	L1, L2, L3 x 2 = 6	6	1	09920118	021594
EV-S G 3.8.120	L1, L2, L3 x 2 + L1, L2 x 1 = 8	8	1	09920302	134577
EV-S G 3.9.120	L1, L2, L3 x 3 = 9	9	1	09920175	045781

All busbars can also be delivered in flange design (add S to end of order, example: EV-S S). Busbars with higher current load capacity available upon request.

Accessories: EV-S BS

Wiring components



Wiring components FI/LS busbars, cut-to-length

Busbars (1000 mm), can be cut to length, for residual current operated and miniature circuit-breakers

one-pole

G.1.56.16/90°iso	16 mm², L1	1	09920313	149618
G.1.56.80/12/90°iso	10 mm², L1	1	09920150	015289

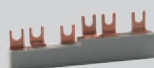
two-pole

G.2.56.130/16	16 mm², L1, L2	1	09920311	145092
GM.2.56.100/10	10 mm², L1, L2	1	09920301	134560

three-pole

GM.3.54.100/10/N	10 mm², L1+N, L2+N, L3+N	1	09920310	145085
GM.3.54.130/16/N	16 mm², L1+N, L2+N, L3+N	1	09920304	137097
GM.3.57.100/10	10 mm², L1, L2, L3	1	09920300	134553
GM.3.57.130/16	16 mm², L1, L2, L3	1	09920312	145108
GM.4.56.100/10	10 mm², L1, L2, L3, N	1	09920314	160378
GM.4.56.130/16	16 mm², L1, L2, L3, N	1	09920315	160385

Accessories: EV-S BS, EK-1/10/16, EK-2/3/10/16, EK-4/10/16



Wiring components Adapter rails

Connection rails for residual current operated and miniature circuit-breakers for power supply from above

three-pole

EV-S G ANL	16 mm², L1, L2, L3 x 2 = 6	6	1	09920127	200692
EV-S G ANR	16 mm², L1, L2, L3 x 2 = 6	6	1	09920128	200708

Accessories: EV-S BS



Wiring components DIN interconnecting rails

three-pole

RVS 3.125.120	Mounting rail distance 125 mm	1	09920286	076006
RVS 3.150.120	Mounting rail distance 150 mm	1	09920287	076013



Wiring components D0 busbars

Busbars (1000 mm), can be cut to length, for Do switch-disconnectors

one-pole

Sammelschiene 1x16 DO2	L1	1	09980141	049017
Sammelschiene 1x25 DO2	L1	1	09980143	049031
Sammelschiene 1x35 DO2	L1	1	09980095	075955

two-pole

Sammelschiene 2x16 DO2	L1, L2	1	09980094	063181
Sammelschiene 2x25 DO2	L1, L2	1	09980144	049048
Sammelschiene 2x35 DO2	L1, L2	1	09980096	075962

three-pole

Sammelschiene 3x16 DO2	L1, L2, L3	1	09980142	049024
Sammelschiene 3x25 DO2	L1, L2, L3	1	09980145	049055
Sammelschiene 3x35 DO2	L1, L2, L3	1	09980097	075979
Sammelschiene 4x16 DO2	L1, L2, L3, N	1	09980093	063105
Sammelschiene 4x25 DO2	L1, L2, L3, N	1	09980146	049062
Sammelschiene 4x35 DO2	L1, L2, L3, N	1	09980098	075986

Accessories: EK-1/10/16, EK-1/25/35, EK-2/3/10/16, EK-2/3/4/25, EK-2/3/35, EK-4/10/16

Wiring components, Do master disconnectors

Wiring components SI busbars

single-pole busbars, can be cut to length, for the SI system and Dupline

one-pole

SAM 12

Load capacity max. 16 A

mod. widths	pack. units	Article No.	EAN (4014712...)
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12	1	09500157	064362
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D0 master disconnectors Tytan

with fitted cartridges in the colour corresponding to the rated current and plug set, without fuse

one-pole

Tytan 02 A, one-pole	pink	1.5	1	09980385	123106
Tytan 04 A, one-pole	brown	1.5	1	09980386	123113
Tytan 06 A, one-pole	green	1.5	1	09980387	123120
Tytan 10 A, one-pole	red	1.5	1	09980388	123137
Tytan 16 A, one-pole	grey	1.5	1	09980389	123144
Tytan 20 A, one-pole	blue	1.5	1	09980390	123151
Tytan 25 A, one-pole	yellow	1.5	1	09980382	089631
Tytan 35 A, one-pole	black	1.5	1	09980381	089624
Tytan 50 A, one-pole	white	1.5	1	09980380	089617
Tytan 63 A, one-pole	copper	1.5	1	09980086	063112

three-pole

Tytan 02 A, three-pole	pink	4.5	1	09980391	123168
Tytan 04 A, three-pole	brown	4.5	1	09980392	123175
Tytan 06 A, three-pole	green	4.5	1	09980393	123182
Tytan 10 A, three-pole	red	4.5	1	09980394	123199
Tytan 16 A, three-pole	grey	4.5	1	09980395	123205
Tytan 20 A, three-pole	blue	4.5	1	09980396	123212
Tytan 25 A, three-pole	yellow	4.5	1	09980397	123229
Tytan 35 A, three-pole	black	4.5	1	09980383	118638
Tytan 50 A, three-pole	white	4.5	1	09980384	118645
Tytan 63 A, three-pole	copper	4.5	1	09980087	063129

Accessories: Fuse plug sets

D0 master disconnectors Tytan with monitoring

with safety monitoring (LED and relay with NO contact and changeover contact), with fitted cartridges for fuse plug sets up to 63 A, without fuse

Tytan 63 A, one-pole	3	1	09980088	063136
Tytan 63 A, one-pole +N	4.5	1	09980091	063167
Tytan 63 A, two-pole	4.5	1	09980089	063143
Tytan 63 A, three-pole	6	1	09980090	063150
Tytan 63 A, three-pole +N	7.5	1	09980092	063174

Accessories: Fuse plug sets

D0 master disconnectors Tytan lockable (empty housing)

lockable empty housing with fitted cartridges for fuse plug sets up to 63 A, without fuse

Tytan 63 A, three-pole	4.5	1	09980106	048669
Tytan 63 A, three-pole +N	6	1	09980107	048676

Accessories: Fuse plug sets

D0 master disconnectors Tytan (track mounting)

Empty housing with 40 mm adaptor for track mounting and fitted cartridges for fuse plug sets up to 63 A, without fuse

Tytan 63 A, three-pole	4.5	1	09980400	160460
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Accessories: Fuse plug sets

Do master disconnectors, Disconnectors



D0 master disconnectors Tytan (empty housing)

Empty housing with fitted cartridges for fuse plug sets up to 63 A, without fuse



	mod. widths	pack. units	Article No.	EAN (4014712...)
Tytan 63 A, one-pole	1.5	1	09980101	048614
Tytan 63 A, one-pole +N	3	1	09980104	048645
Tytan 63 A, two-pole	3	1	09980102	048621
Tytan 63 A, three-pole	4.5	1	09980103	048638
Tytan 63 A, three-pole +N	6	1	09980105	048652

Accessories: Fuse plug sets



D0 master disconnectors Coron 2

Screwcap-less plug-in technology with fuse plug and flashing indicator for conventional fitted sleeves Do2 without fuse



Coron 2, one-pole	1.5	1	09980671	132122
Coron 2, two-pole	3	1	09980672	132139
Coron 2, three-pole	4.5	1	09980673	132146

Accessories: Coron-2-Haltefeder



Disconnectors DHS

The DHS switch-disconnectors are used as main switches for connected circuit distribution boards.



063 A

DHS2-063	two-pole	2	1	09900005	129665
DHS4-063	four-pole	4	1	09900007	129764

080 A

DHS2-080	two-pole	2	1	09900006	129788
DHS4-080	four-pole	4	1	09900008	129801

100 A

DHS2-100	two-pole	2	1	09900001	111479
DHS4-100	four-pole	4	1	09900003	111516

125 A

DHS2-125	two-pole	2	1	09900002	111493
DHS4-125	four-pole	4	1	09900004	111530

Accessories: Labelling Software DLS 6, DFS 2/4, WES, KA-DFS 2

Disconnectors



Disconnectors RH

10000

The devices in series RH are main load switches with disconnector function, with contacts that are very durable.

16 A

RH 016-100	1 NO	1	1	09981052	215016
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020 A

RH 020-100	1 NO	1	1	09981053	215023
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RH 020-200	2 NO	2	1	09981087	215153
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RH 020-300	3 NO	3	1	09981088	215160
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25 A

RH 025-300	3 NO	3	1	09981054	215061
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032 A

RH 032-100	1 NO	1	1	09981093	224056
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RH 032-200	2 NO	2	1	09981089	215177
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RH 032-300	3 NO	3	1	09981055	215078
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40 A

RH 040-100	1 NO	1	1	09981056	215030
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RH 040-200	2 NO	2	1	09981057	215122
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RH 040-300	3 NO	3	1	09981058	215085
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RH 040-400	4 NO	4	1	09981059	215108
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63 A

RH 063-100	1 NO	1	1	09981060	154841
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RH 063-200	2 NO	2	1	09981061	154858
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RH 063-300	3 NO	3	1	09981062	154865
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RH 063-400	4 NO	4	1	09981063	154872
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80 A

RH 080-300	3 NO	3	1	09981067	215092
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100 A

RH 100-200	2 NO	2	1	09981065	215054
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RH 100-300	3 NO	3	1	09981064	154889
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RH 100-400	4 NO	4	1	09981066	215115
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Accessories: RH-KA, RH-SS for RH

Pulse relays (remote switches), Control switches, Group switches



Pulse relays (remote switches) RS

10000

The impulse relays (remote switches) in series RS are suitable for switching electrical consumers up to 16 A in intermittent operation.

008 V AC / 16 A

mod.	pack.	widths	units	Article No.	EAN (4014712...)
RS 008-001	1 CO	1	1	09981041	154759
RS 008-100	1 NO	1	1	09981030	154643
RS 008-110	1 NC/1 NO	1	1	09981037	154711

012 V AC / 16 A

RS 012-001	1 CO	1	1	09981042	154766
RS 012-002	2 CO	2	1	09981045	154797
RS 012-100	1 NO	1	1	09981031	154650
RS 012-110	1 NC/1 NO	1	1	09981038	154728
RS 012-200	2 NO	1	1	09981034	154681

024 V AC / 16 A

RS 024-001	1 CO	1	1	09981043	154773
RS 024-002	2 CO	2	1	09981046	154803
RS 024-100	1 NO	1	1	09981032	154667
RS 024-110	1 NC/1 NO	1	1	09981039	154735
RS 024-200	2 NO	1	1	09981035	154698

230 V AC / 16 A

RS 230-001	1 CO	1	1	09981044	154780
RS 230-002	2 CO	2	1	09981047	154810
RS 230-100	1 NO	1	1	09981033	154674
RS 230-110	1 NC/1 NO	1	1	09981040	154742
RS 230-200	2 NO	1	1	09981036	154704

Accessories: RD 05, RS-KB



Control switches RSS (push-button version)

10000

The RSS control switches with push-button (latching) are suitable for switching electrical consumers up to 16 A.

250 V AC / 16 A

RSS 016-001	1 CO	1	1	09981077	154957
RSS 016-100	1 NO	1	1	09981070	154896
RSS 016-200	2 NO	1	1	09981071	154902

250 V AC / 16 A with LED

RSS 016-100L	1 NO	1	1	09981075	154933
RSS 016-200L	2 NO	1	1	09981076	154940



Control switches RSS (toggle version)

10000

The RSS control switches with toggle are suitable for switching electrical consumers.

250 V AC / 16 A

RSS 016-300	3 NO	1	1	09981072	154919
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Group switches RG

10000

The group switches of the RG series are suitable for switching one-phase electrical consumers up to 16 A and have one zero position.

230 V, 400 V AC / 16 A

RG 016-001	1 CO	1	1	09981080	154971
RG 016-002	2 CO	1	1	09981081	154988

Pulse relays with central control, Pulse relays (remote switches), Control buttons

				mod. widths	pack. units	Article No.	EAN (4014712...)
	Pulse relays with central control RSZ						
	<i>The impulse relays (remote switches with central control) in series RSZ are suitable for switching electrical consumers up to 16 A in intermittent operation.</i>						
	024 V AC / 16 A						
	RSZ 024-100	1 NO		1	1	09981050	154827
	230 V AC / 16 A						
	RSZ 230-100	1 NO		1	1	09981051	154834
Accessories: RD 05, RS-KB							
	Pulse relays (remote switches) DS						
	<i>for socket/box installation and on-wall mounting</i>						
	230 V AC / 10 A						
	DS 230-100	1 NO			1	09981100	158955
	Control buttons RT						
	<i>The RT control switches allow impulses to be generated for electrical consumers or within controls with a rated current of up to 16 A.</i>						
	250 V AC / 16 A						
	RT 016-100	1 NO		1	1	09981084	155008
	RT 016-110	1 NC/1 NO		1	1	09981085	155015
	250 V AC / 16 A with LED						
	RT 016-110L	1 NC/1 NO		1	1	09981086	155022
SI-System							
	Pulse relays (remote switches) SIR						
	<i>System components of SI building management systems. Can also be used for system-independent control tasks.</i>						
	024 V DC / 16 A						
	SIR 16 L	Modular DIN rail component		1	1	09500153	064928
	SIR 16 M	Modular DIN rail component	SELLOUT	1	1	09500210	086708
	024 V DC / 8 A						
	SIR 8 AN	In-wall (flush-mounted) device			1	09500051	015098
	Rated voltage 230 V AC						

Installation relays, Time relays, Stairway time switches, Time switches

mod. pack.
widths units

Article No.

EAN
(4014712...)

Installation relays RI

The RI installation relays are suitable for switching single-phase consumers up to 20 A.

008 V AC / 20 A

RI 008-001	1 CO	1	1	09981010	154568
RI 008-100	1 NO	1	1	09981001	154476
RI 008-110	1 NC/1 NO	1	1	09981005	154513

012 V AC / 20 A

RI 012-001	1 CO	1	1	09981011	154575
RI 012-100	1 NO	1	1	09981002	154483
RI 012-110	1 NC/1 NO	1	1	09981006	154520

024 V AC / 20 A

RI 024-001	1 CO	1	1	09981012	154582
RI 024-002	2 CO	2	1	09981014	154605
RI 024-100	1 NO	1	1	09981003	154490
RI 024-110	1 NC/1 NO	1	1	09981007	154537

024 V DC / 20 A

RI 024-100 DC	1 NO	1	1	09981016	154629
RI 024-110 DC	1 NC/1 NO	1	1	09981017	154636

230 V AC / 20 A

RI 230-001	1 CO	1	1	09981013	154599
RI 230-002	2 CO	2	1	09981015	154612
RI 230-100	1 NO	1	1	09981004	154506
RI 230-110	1 NC/1 NO	1	1	09981008	154544
RI 230-200	2 NO	1	1	09981009	154551

Time relays RZ

multifunctional time relay with long time ranges

RZM 128	12 V ... 240 V AC/DC	1	1	09980715	151659
RZQ 248	24 V ... 240 V AC/DC	1	1	09980716	151666

1 changeover contact, rated current 8 A

Stairway time switches RTZ

electronic stairwell lighting time switches with switch-off pre-warning

RTZ 2		1	1	09980719	151697
RTZ F		1	1	09980720	151703

1 NO contact, rated voltage 230 V AC, rated current 10 A

Time switches Uno

The mechanical time switches from the Uno series control one electrical load circuit each via day and/or week programs.

Uno D	Daily repetition operation, 0 h Reserve power	1	1	09800033	151062
Uno QRD	Daily repetition operation, 150 h Reserve power	1	1	09800034	151079
Uno QRS	Daily repetition operation, Weekly repetition operation, 150 h Reserve power	1	1	09800035	151086

1 NO contact, operating voltage 230 V AC

Time switches Data Micro

The compact digital time switches from the Data Micro series control up to two electrical load circuits via day and week programs.

Data Micro +	1 CO	2	1	09800031	151048
Data Micro 2+	2 CO	2	1	09800032	151055

Day, week and holiday program, 250 hours reserve power, rated voltage 230 V AC

Time switches, Installation contactors



Time switches DTSW Astro

time switch for controlling electrical consumers depending on sunrise and sunset times.

mod.	pack.			Article No.	EAN (4014712...)
widths	units				
DTSW Astro 1	2 CO	2	1	09800037	221420
Sunrise, Sunset, Hourly repetition operation, Daily repetition operation, Weekly repetition operation, Holiday operation, 48 h Power reserve, rated voltage 250 V					



Installation contactors HS 24 V AC

for switching one and three-phase consumers

20 A					
HS 20-02 24 V	4.6 kW/1.1 kW, 2 NC	1	1	09980405	067073
HS 20-11 24 V	4.6 kW/1.1 kW, 1 NC/1 NO	1	1	09980403	067059
HS 20-20 24 V	4.6 kW/1.1 kW, 2 NO	1	1	09980401	067035
24 A					
HS 20-13 24 V	14 kW/1.1 kW, 3 NC/1 NO	2	1	09980425	067318
HS 20-31 24 V	14 kW/1.1 kW, 1 NC/3 NO	2	1	09980423	067295
HS 20-40 24 V	14 kW/1.1 kW, 4 NO	2	1	09980421	067271
25 A					
HS 25-04 24 V	17 kW/2.5 kW, 4 NC	2	1	09980428	089457
HS 25-13 24 V	17 kW/2.5 kW, 3 NC/1 NO	2	1	09980411	067134
HS 25-20 24 V	5.5 kW/1.1 kW, 2 NO	NEW 1	1	09980448	231078
HS 25-22 24 V	17 kW/2.5 kW, 2 NC/2 NO	2	1	09980432	107342
HS 25-31 24 V	17 kW/2.5 kW, 1 NC/3 NO	2	1	09980409	067110
HS 25-40 24 V	17 kW/2.5 kW, 4 NO	2	1	09980407	067097
40 A					
HS 40-04 24 V	27.5 kW/8 kW, 4 NC	3	1	09980436	118539
HS 40-22 24 V	27.5 kW/8 kW, 2 NC/2 NO	3	1	09980433	107359
HS 40-31 24 V	27.5 kW/8 kW, 1 NC/3 NO	3	1	09980415	067172
HS 40-40 24 V	27.5 kW/8 kW, 4 NO	3	1	09980413	067158
63 A					
HS 63-22 24 V	25.2 kW/8.5 kW, 2 NC/2 NO	3	1	09980434	107366
HS 63-31 24 V	43 kW/8.5 kW, 1 NC/3 NO	3	1	09980419	067219
HS 63-40 24 V	43 kW/8.5 kW, 4 NO	3	1	09980417	067196

Rated frequency 50 Hz

Accessories: HSH 11, HSP-25, HSP-40/63

Installation contactors, Undervoltage measuring relays, Load shedding relays

mod. pack.
widths units

Article No.

EAN
(4014712...)

Installation contactors HS 230 V AC

for switching one and three-phase consumers

20 A

HS 20-02 230 V	4.6 kW/1.1 kW, 2 NC	1	1	09980406	067080
HS 20-10 230 V	4.6 kW/1.1 kW, 1 NO	1	1	09980442	158405
HS 20-11 230 V	4.6 kW/1.1 kW, 1 NC/1 NO	1	1	09980404	067066
HS 20-20 230 V	4.6 kW/1.1 kW, 2 NO	1	1	09980402	067042

24 A

HS 20-13 230 V	14 kW/1.1 kW, 3 NC/1 NO	2	1	09980426	067325
HS 20-31 230 V	14 kW/1.1 kW, 1 NC/3 NO	2	1	09980424	067301
HS 20-40 230 V	14 kW/1.1 kW, 4 NO	2	1	09980422	067288

25 A

HS 25-04 230 V	17 kW/2.5 kW, 4 NC	2	1	09980427	075993
HS 25-13 230 V	17 kW/2.5 kW, 3 NC/1 NO	2	1	09980412	067141
HS 25-20 230 V	5.5 kW/1.1 kW, 2 NO	NEW	1	09980447	231061
HS 25-22 230 V	17 kW/2.5 kW, 2 NC/2 NO	2	1	09980431	107335
HS 25-30 230 V	17 kW/2.5 kW, 3 NO	2	1	09980443	158412
HS 25-31 230 V	17 kW/2.5 kW, 1 NC/3 NO	2	1	09980410	067127
HS 25-40 230 V	17 kW/2.5 kW, 4 NO	2	1	09980408	067103

40 A

HS 40-02 230 V	27.5 kW/8 kW, 2 NC	3	1	09980437	137073
HS 40-04 230 V	27.5 kW/8 kW, 4 NC	3	1	09980435	118546
HS 40-20 230 V	27.5 kW/8 kW, 2 NO	3	1	09980439	151468
HS 40-20S 230 V	9 kW, 2 NO	2	1	09980445	216716
HS 40-22 230 V	27.5 kW/8 kW, 2 NC/2 NO	3	1	09980429	107113
HS 40-30 230 V	27.5 kW/8 kW, 3 NO	3	1	09980440	152540
HS 40-31 230 V	27.5 kW/8 kW, 1 NC/3 NO	3	1	09980416	067189
HS 40-40 230 V	27.5 kW/8 kW, 4 NO	3	1	09980414	067165

63 A

HS 63-20S 230 V	14.3 kW, 2 NO	2	1	09980446	216723
HS 63-22 230 V	25.2 kW/8.5 kW, 2 NC/2 NO	3	1	09980430	107120
HS 63-30 230 V	43 kW/8.5 kW, 3 NO	3	1	09980438	148208
HS 63-31 230 V	43 kW/8.5 kW, 1 NC/3 NO	3	1	09980420	067226
HS 63-40 230 V	43 kW/8.5 kW, 4 NO	3	1	09980418	067202

Rated frequency 50 Hz

Accessories: HSH 11, HSP-25, HSP-40/63

Undervoltage measuring relays RUR

Undervoltage monitoring for alternating voltage

RUR 1	fixed 195.5 V AC, 3-phase	1	1	09980717	151673
RUR 3	adjustable 160 V ... 240 V AC, 3-phase	1	1	09980718	151680
RUR 5	fixed 165 V AC, 3-phase	NEW	1	09980722	231177
RUR 6	fixed 165 V AC, 1-phase	NEW	1	09980723	231931

1 changeover contact, operating voltage 230/400 V AC, rated current 5 A, duty cycle 100%.

Load shedding relays RLR

for isolating long-term operated consumers when switching on short-term operated consumers

RLR 1	instantaneous, for conventional continuous-flow heaters	1	1	09980283	076686
RLR 2	delayed, for electronic continuous-flow heaters	1	1	09980284	076693

1 NC contact, rated current 1 A, response current 5 A

Load monitors, Mains field relays, Twilight switches

Load monitors LM

for display, indication or switch-off of electrical consumers

			mod. widths	pack. units	Article No.	EAN (4014712...)
LM 1	16 A, adjustable 0,05 A ... 0,3 A	SELLOUT	1	1	09700110	077508
LM 2	16 A, adjustable 0,05 A ... 10 A	SELLOUT	1	1	09700111	077515
LM 3	100 A, adjustable 4 A ... 100 A	SELLOUT	1	1	09700116	113671

Operating voltage 230 V AC, 1 changeover contact, other designs available upon request.
Monitoring for LM 3 via supplied transformer (opening: Ø 7.8 mm), independent of auxiliary voltage, supply from secondary winding of transformer.

Mains field relays FSE

for automatic load-dependent disconnection of the mains voltage
as per environmentally compatible building recommendations

FSE 1			1	1	09700108	048126
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Switch-on threshold adjustable from 3-15 W, switch-off threshold 2-10 W, rated current 16 A, operating voltage $U_n \sim 230$ V AC, 1 NO contact, single-pole, measuring voltage 3 V AC

Accessories: FS-GE, FS-GZ

Twilight switches EDS 2E

for light-dependent control, separated switch-on and switch-off threshold

EDS 2E with LF 1	with LF 1 light sensor	SELLOUT	2	1	09500125	048089
EDS 2E w/o LF 1	single device without light sensor	SELLOUT	2	1	09500126	048164

Adjustment range: 0.1 lux ... 1000 lux

Accessories: LF 1

Twilight switches EDS 16

for light-dependent control, adjustable switch-off threshold, fixed hysteresis

EDS 16 with LF 1	with LF 1 light sensor		2	1	09500110	047907
EDS 16 w/o LF 1	single device without light sensor		2	1	09500121	048065

Adjustment range: 2 lux ... 1000 lux

Accessories: LF 1

Twilight switches Dasy

for daylight-linked lighting control (outdoor mounting)



010 A

Dasy 10-2 12V AC/DC			1		09500040	160552
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Dasy 10-2 230V			1		09500043	160125
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Dasy 10-2 24V AC/DC			1		09500041	160569
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016 A

Dasy 16-2 230V			1		09500042	160118
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Switch-on threshold smoothly adjustable 1-200 Lux, 1 NO contact, protection class IP54, for wall and mast mounting. Other operating voltages, switching thresholds and delay values available upon request.

Accessories: Fastening set for Dasy

Twilight switches Dasy TC

with programmable time switch for energy-saving night-time switch-off

016 A

Dasy 016-230 TC			1		09500044	223356
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switch-on threshold smoothly adjustable 1-200 Lux, 1 NO contact, protection class IP54, for wall and mast mounting

Accessories: Fastening set for Dasy

Float switches, Pressure switches, Twilight switches



Float switches Champ

Float switches are used for fill-level-linked pump control.

Function „empty“

Champ 1 GS-L 03 m	empty, 1 NO, H07RN-F 3G1	1	09921001	061729
Champ 1 GS-L 05 m	empty, 1 NO, H07RN-F 3G1	1	09921004	063020
Champ 1 GS-L 10 m	empty, 1 NO, H07RN-F 3G1	1	09921007	063051

Function „fill“

Champ 1 GS-F 03 m	fill, 1 NO, H07RN-F 3G1	1	09921002	063006
Champ 1 GS-F 05 m	fill, 1 NO, H07RN-F 3G1	1	09921005	063037
Champ 1 GS-F 10 m	fill, 1 NO, H07RN-F 3G1	1	09921008	063068

Function „fill/empty“

Champ 2 G-L/F 03 m	fill/empty, 1 CO, H07RN-F 3X1	1	09921003	063013
Champ 2 G-L/F 05 m	fill/empty, 1 CO, H07RN-F 3X1	1	09921006	063044
Champ 2 G-L/F 10 m	fill/empty, 1 CO, H07RN-F 3X1	1	09921009	063075
Champ 2 G-L/F 20 m	fill/empty, 1 CO, H07RN-F 3X1	1	09921019	129993
Champ 2 GS-L/F 03 m	fill/empty, 1 CO, H07RN-F 4G1	1	09921053	221444
Champ 2 GS-L/F 05 m	fill/empty, 1 CO, H07RN-F 4G1	1	09921056	221451
Champ 2 GS-L/F 10 m	fill/empty, 1 CO, H07RN-F 4G1	1	09921059	221468

switching capacity 10 A at 250 V AC max, housing colour blue (RAL 5010), IP 67

Accessories: GGW



Float switches Champ HD

Float switches are used for fill-level-linked pump control. These are suited for use in faeces tanks.

Function „fill/empty“

Champ 2 G-L/F HD 05 m	fill/empty, 1 CO, H07RN-F 3X1	1	09921070	221475
Champ 2 G-L/F HD 10 m	fill/empty, 1 CO, H07RN-F 3X1	1	09921071	221482
Champ 2 G-L/F HD 20 m	fill/empty, 1 CO, H07RN-F 3X1	1	09921072	221499

switching capacity 10 A at 250 V AC max, housing colour blue (RAL 5010), IP 67



Pressure switches DSP

for automatically switching on/off electric motors on pumps

for pumps

DSP 06-2	1.5 bar ... 6 bar, 2 NC, /16 A	1	09921060	208568
DSP 06-3	1.5 bar ... 6 bar, 3 NC, /25 A	1	09921062	208605
DSP 10-2	4 bar ... 10.5 bar, 2 NC, /16 A	1	09921061	208582
DSP 10-3	4 bar ... 10.5 bar, 3 NC, /25 A	1	09921063	208629

SI-System



Twilight switches SIDS

Twilight switches for the SI system

SIDS with LF 1	with LF 1 light sensor	1	09500156	047914
SIDS w/o LF 1	single device without light sensor	1	09500172	047921

Adjustment range 2-500 lux, adjustable switching hysteresis, power supply 24 V DC

Accessories: LF 1

SI-System



Twilight switches SIROLUX

Twilight switches for the SI system with independently adjustable switch-on/off threshold

SIROLUX with LF 1	with LF 1 light sensor	2	09500168	047976
SIROLUX w/o LF 1	single device without light sensor	2	09500169	047983

Adjustment range for twilight 1-200 lux (fixed hysteresis 1.5)/brightness 2000-200,000 lux (adjustable hysteresis 0.2-0.8), power supply 24 V DC/Adjustment range for twilight 1-200 lux (fixed hysteresis 1.5)/brightness 2000-200,000 lux (adjustable hysteresis 0.2-0.8), power supply 24 V DC

Accessories: LF 1

Residual current analysis systems, Measuring transformers, Energy counters, Indicator lamps, Flush-mounted sockets, Lighting control devices

Residual current analysis systems DRCA



DRCA-1-Set

1

09352050

199491

Set consists of: Measuring unit DRCA 1, residual current transformer DRCA 1 CT 70, measuring cable 3 m length DRCA 1 MC, analysis software DRCA 1 SW in storage case

Accessories: DRCA 1 CT 070, DRCA 1 CT 105, DRCA 1 CT 140, DRCA1-MC

Measuring transformers DRCA CT



Residual current detection unit, can be combined with a DRCA 1 measuring unit to a residual current analysis system



DRCA 1 CT 070 70 mm

1

09352052

199514

DRCA 1 CT 105 105 mm

1

09352056

201286

DRCA 1 CT 140 140 mm

1

09352057

201293

Accessories: 09352053|Cables DRCA, DRCA1-MC

Energy counters DEZ C1



digital AC counter with LC display, verified and MID-compliant



DEZ C1-040-110

NEW

1

1

09980975

231313

for detecting the active energy, So output: 100 impulses/kWh, programmable alarm functions for power, voltage, current and power factor

Energy counters DEZ C3



digital three-phase counter with LC display, verified and MID-compliant



DEZ C3-040-110

NEW

3

1

09980976

231337

for detecting the active energy in four-wire mains, So output: 100 impulses/kWh, programmable alarm functions for power, voltage, current and power factor

Indicator lamps RL

Indicator lights with LED



RL 230-1GR green

1

1

09981091

155046

RL 230-1RT red

1

1

09981092

155053

RL 230-1W white

1

1

09981090

155039

Operating voltage AC 50 - 240 V/DC 110 - 240 V

Flush-mounted sockets RDS

Installation sockets with a connected load of 250 V/16 A



RDS 6

2.5

1

09980028

040458

RDS 9 with lid

2.5

1

09980698

131941

for distribution board installation and wall mounting

cross-system

Lighting control devices RUD 1

remote dimmer with central on/off and memory function



RUD 1 15 VA ... 420 VA

2

1

09500028

064232

adjustable for leading or trailing edge, operating voltage 230 V AC, control voltage 230 V AC, dimming capacity 15 VA - 420 VA

cross-system

Lighting control devices RUD 2

control unit for remote dimmer consumers LT 500 and LT 1200 with central on/off and memory function



RUD 2

1

1

09500203

075665

Operating voltage 230 V AC, control voltage 230 V AC

Lighting control devices, Couplers for external systems and voltages

		mod. widths	pack. units	Article No.	EAN (4014712...)	
Lighting control devices SIDI 1						
remote dimmer with central on/off and memory function						
SIDI 1	15 VA ... 420 VA	2	1	09500185	064225	
adjustable for leading or trailing edge, rated voltage 230 V AC, operating voltage 24 V DC, control voltage 24 V DC						
Lighting control devices SIDI 2						
control unit for remote dimmer consumers LT 500 and LT 1200 with central on/off and memory function						
SIDI 2		1	1	09500201	075641	
Operating voltage 24 V DC, control voltage 24 V DC						
Accessories: LT 0500, LT 1200						
Lighting control devices LT 500/LT 1200						
Power dimmer for control devices with PWM output						
LT 0500	10 VA ... 500 VA	2	1	09500226	149700	
LT 1200	40 VA ... 1200 VA	4	1	09500227	149717	
adjustable for leading or trailing edge, operating voltage 230 V AC						
Lighting control devices LT 500 M/LT 1200 M						
with rotary knob for local operation						
LT 0500 M	10 VA ... 500 VA	2	1	09500224	138216	
LT 1200 M	40 VA ... 1200 VA	4	1	09500230	199880	
adjustable for leading or trailing edge, operating voltage 230 V AC, control voltage 230 V AC						
Lighting control devices LSG						
for convenient, situation-linked lighting control						
LSG 1	4 lighting scenes, 0.4 s...11 s	SELLOUT	4	1	09500204	076365
LSG 2	4 lighting scenes, 1.3 s...33 s	SELLOUT	4	1	09500231	206205
LSG 3	4 lighting scenes, 1 min...23 min	SELLOUT	4	1	09500232	206212
Operating voltage 24 V DC						
Accessories: LT 0500, LT 1200, LSPG						
Lighting control devices DALI						
for comfortable and situation dependant light control via the DALI bus						
LSG 4 DALI		4	1	09500243	215139	
operating voltage 24 V DC, 8 push-button inputs with feedback for controlling light groups and scenes feedback, inputs for central on and central off, for up to 64 devices on the DALI bus						
Couplers for external systems and voltages SITU						
Key signal converters for smoothly adjustable electronic ballasts with control output 1-10 V						
SITU		SELLOUT	2	1	09500197	048010
Operating voltage 24 V DC, control voltage 24 V DC, load capacity control output 40 mA						

Roller blind control devices, Doorbell transformers, Central units, Couplers for external systems and voltages, Radio and infrared receiver

		mod. widths	pack. units	Article No.	EAN (4014712...)
cross-system 	Roller blind control devices RJSG <i>Drive controls with comfort functions</i>				
	RJSG 1 Rated current 2 A, control voltage 230 V AC, operating voltage 230 V AC	2	1	09980651	106857
cross-system 	Doorbell transformers RK <i>for converting the mains voltage 230 V into SELV</i>				
	RK 12 4/8/12 V; 2/2/1.5 A, cannot be switched off RK 12 S 4/8/12 V; 2/2/1.5 A, can be switched off at primary RK 24 8/12/24 V; 2/1.3/0.6 A, cannot be switched off RK 3 U 4/8/12 V; 3/2/2 A, cannot be switched off RK 81 8 V; 1 A, cannot be switched off RK 81 S 8 V; 1 A, can be switched off at primary Primary voltage 230 V AC/50 Hz, duty cycle 100% Accessories: RK M36, RK M54	2	1	09980033	040502
Dupline 	Central units DKG 1 <i>Channel generators with Modbus-I-RTU interface</i>				
	DKG 1 24 V DC, with display Central units for setting up a Dupline system with 128 channels. Accessories: DKK 1, DKK 2, DKA 1, DKK 3	8	1	09501122	108486
Dupline 	Central units DKG 20/DKG 21-GSM <i>Channel generators with Modbus network (can be networked)</i>				
	DKG 20 115 V, 230 V AC, with DCF clock DKG 21 - GSM 115 V, 230 V AC, with DCF clock, with GSM modem Central units for setting up a Dupline system with 128 channels. The DCF antenna DDA 1 is required for the DKG 20/DKG 21-GSM in order to receive the DCF time. Accessories: DDA 1, DKK 1, DGA 1	8	1	09501188	135093
Dupline 	Couplers for external systems and voltages DCI 2 <i>Serial-to-Ethernet port server for remote maintenance/ remote configuration of channel generators DKG 20/DKG 21-GSM</i>				
	DCI 2 Interfaces: 1 x RS-232/422/485 (2-wire), 1 x RJ45 10/100 Mbps Ethernet (TCP/IP), operating voltage 24 V DC (supply via plug adaptor provided)	1		09501222	152038
Dupline 	Radio and infrared receiver DCI 3FB <i>Dupline interface for the Insta wireless bus for connecting wireless bus components made by Insta, Berker, Gira and Jung</i>				
	DCI 3 FB max. 57 send commands to wireless actuators, max. 128 receive commands from wireless sensors, teach-in/out process menu-guided on LC display and additionally via LED, external stand antenna supplied with SMB connection, operating voltage 24 V DC Accessories: DFF Komfort, DFF Mini	4	1	09501227	154056

Lighting control devices, Motion and smoke detectors, Radio and infrared receiver, Sensors

		mod. widths	pack. units	Article No.	EAN (4014712...)
Dupline	Lighting control devices DCI 4 DALI <i>Dupline interface for the DALI lighting control bus</i>				
	DCI 4 DALI max. 64 electronic ballasts, 16 input and output addresses, 16 lighting groups, 16 lighting scenes, switch inputs for central-ON and central-OFF function, 2-line LC display, operating voltage 24 V DC	4	1	09501243	215146
Dupline	Motion and smoke detectors DBM <i>Infrared motion detectors</i>				
	DBM 1 Scan angle 90°, range 10 m, operating voltage from Dupline signal line		1	09501134	111264
Dupline	Radio and infrared receiver DIR 2 <i>Infrared receiver for handheld transmitter DIR 2T and Logitech Harmony series</i>				
	DIR 2 8 switching channels per receiver, up to 8 receivers can be cascaded, operating voltage from Dupline signal line <i>Accessories: DIR 2T</i>		1	09501169	122291
Dupline	Radio and infrared receiver DIR 2BO <i>Infrared receiver for Bang&Olufsen handheld transmitters (Beolink 1000, Beo 4)</i>				
	DIR 2BO 8 switching channels per receiver, up to 4 receivers can be cascaded, operating voltage from Dupline signal line <i>Accessories: DIR 2T</i>		1	37501208	144149
Dupline	Sensors DLUX <i>Light value sensor</i>				
	DLUX Measuring range 0.1 lux to 100 Klux, operating voltage from Dupline signal line		1	09501110	108394
Dupline	Motion and smoke detectors DPM <i>Infrared presence detector for ceiling mounting with twilight sensor and one input</i>				
	DPM 1 Scan angle 360°, radius 5 m at a height of 2 m above the person being detected, switching threshold 0.4 to 300 lux adjustable and can be switched off, operating voltage from Dupline signal line		1	09501201	138803
Dupline	Motion and smoke detectors DRD 3 <i>Smoke and fire detectors operating under optical Tyndall principle</i>				
	DRD 3 for rooms up to 60 m², outputs: alarm signal/signs of device function, operating voltage from Dupline signal line		1	09501217	146013

Couplers for external systems and voltages, Sensors, Push-button interfaces

		mod. widths	pack. units	Article No.	EAN (4014712...)
	Dupline				
	Couplers for external systems and voltages DSU 1U <i>1-channel signal converters</i>				
	DSU 1U AC: 90 V ... 265 V Operating voltage from Dupline signal line		1	09501206	143579
	Dupline				
	Couplers for external systems and voltages DSU 2 <i>2-way signal converters</i>				
	DSU 2U AC: 20 V ... 250 V/DC: 20 V ... 300 V Operating voltage from Dupline signal line	SELLOUT	1	09501136	111448
	Dupline				
	Couplers for external systems and voltages DSU 8 <i>8-way signal converters</i>				
	DSU 8plus thresholds 20 V/190 V AC/DC adjustable Operating voltage 24 V DC	4	1	09501244	216273
	Dupline				
	Couplers for external systems and voltages DTZ 4 <i>Operating time and So impulse counters for energy measuring devices</i>				
	DTZ 4 4 counter inputs in multiplex process, measuring range 0...99,999,999, operating voltage 24 V DC	2	1	09501145	113695
	Dupline				
	Sensors DWS 1 <i>Water sensor for wall mounting</i>				
	DWS 1 Operating voltage from Dupline signal line, 2 Dupline channels (alarm, signs of device function)		1	09501197	135918
	Dupline				
	Push-button interfaces DBA <i>1, 2 or 4-way switch base modules for the Jung switch program</i>				
	DBA 1T-J 1-way (switch position)		1	09501239	199651
	DBA 2T-J 2-way (switch position)		1	09501238	199644
	DBA 4M-J 4-way (centre position)		1	09501236	198296
	simple connection of KNX switch programs from Jung (e.g. AS 500/AS plus, CD 500/ CD plus, LS 990, etc.), 2 freely encodable responses, operating voltage from Dupline signal line				
	Dupline				
	Push-button interfaces DSS 2U/4U/8U <i>2, 4 or 8-way key signal input for connection of standard switches and contacts</i>				
	DSS 2U 2 Contact inputs		1	09501194	135338
	DSS 4U 4 Contact inputs		1	09501195	135345
	DSS 8U 8 Contact inputs		1	09501196	135352
	In-wall tablet Ø 54 x 15 mm for deep in-wall sockets, system cable (20 cm) supplied, operating voltage from Dupline signal line				

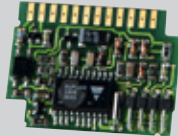
Push-button interfaces, Sensors, Temperature control devices, Lighting control devices

		mod. widths	pack. units	Article No.	EAN (4014712...)
Dupline 	Push-button interfaces DSS 4UR <i>universal key signal sensors with 4 inputs and 4 outputs</i>				
	DSS 4UR-N	switching at 0 V	1	09501241	210219
	DSS 4UR-P	switching at 24 V	1	09501242	213272
	4 bus-decoupled inputs 24 V DC, 4 bus-decoupled outputs 24 V DC max. 50 mA each, in-wall unit Ø 54 x 15 mm for deep in-wall sockets/boxes Ø 68 mm, operating voltage 24 V DC				
Dupline 	Sensors DTS 1 <i>Temperature sensors -30 °C ... 60 °C</i>				
	DTS 1	for outdoor use	1	09501112	108400
	Operating voltage from Dupline signal line; the DKP 3 is required for connection to the handheld encoder Accessories: DKM 1, DKP 3				
Dupline 	Sensors DTS 2 <i>Temperature sensors -30 °C ... 60 °C</i>				
	DTS 2	for indoor use	1	09501168	121942
	Operating voltage from Dupline signal line				
Dupline 	Temperature control devices DRT 2 <i>Digital single-room two-point controller with two-line text display</i>				
	DRT 2-an	anthracite	1	09501701	203068
	DRT 2-bl	blue	1	09501702	203075
	DRT 2-we	cream white/electro white	1	09501700	203051
	Temperature range 0°C to 45°C, recessed housing for in-wall sockets Ø 68 mm, display size suitable for 50 x 50 mm frame size (adaptor frame from corresponding switch program required), operating voltage 24 V DC				
Dupline 	Lighting control devices DDM 1Rplus <i>1-channel dimmers</i>				
	DDM 1Rplus	10 VA ... 600 VA, phase control/reverse phase control	4	1	09501175
	6 freely programmable and lockable lighting scenes, 1 x 230 V AC output, 1 x PWM for up to 10 LT 500 and LT 1200 dimmer consumers, operating/alarm status via Dupline, operating voltage 24 V DC Accessories: LT 0500, LT 1200				
Dupline 	Lighting control devices DDM 2plus <i>2-channel dimmers</i>				
	DDM 2plus	250 VA, phase control/reverse phase control	4	1	09501187
	6 freely programmable and lockable lighting scenes, 2 x 230 V AC/10#96250 VA outputs, feedback: operating status/alarm via isolated semiconductor outputs 10#9630 V/50 mA, operating voltage 24 V DC				
Dupline 	Lighting control devices DDMU 1Rplus <i>1-channel dimmers</i>				
	DDMU 1Rplus	1 x 1-10 V output	2	1	09501181
	6 freely programmable and lockable lighting scenes, 1 x 1-10 V output for smoothly adjustable electronic ballasts, 1 x PWM for up to 10 LT 500 and LT 1200 dimmer consumers, relay 10 A (max. 25 electronic ballasts with 58 W each), operating status via Dupline, operating voltage 24 V DC Accessories: LT 0500, LT 1200				

Lighting control devices, Relay and shutter controls, Visualisation components

		mod. widths	pack. units	Article No.	EAN (4014712...)
Dupline	Lighting control devices DDMU 2plus <i>2-channel dimmers</i>				
	DDMU 2plus 2 x 1-10 V/2 x PWM output 6 freely programmable and lockable lighting scenes, outputs: 2 x 1-10 V for smoothly adjustable electronic ballasts, 2 x PWM for up to 10 LT 500 and LT 1200 dimmer consumers, relay 2 x 10 A, feedback via isolated semiconductor outputs 10...30 V/50 mA, operating voltage 24 V DC Accessories: LT 0500, LT 1200	4	1	09501185	134539
Dupline	Relay and shutter controls DRO 1U <i>Roller shutter control, 1-way, in-wall, with 3 key signal inputs</i>				
	DRO 1U Switching power 230 V AC/2 A, 3 semiconductor inputs for potential-free contacts, operating voltage from 230 V supply		1	09501138	111882
Dupline	Relay and shutter controls DRM 4 <i>4-way multifunction relay module with 4 potential-free inputs</i>				
	DRM 4 Switching power 230 V AC/16 A, operating modes: 2-way roller shutter control module or 2-way blind control module with incremental operation or 4-way relay module, 4 potential-free inputs 230 V AC/DC, switching thresholds 20 V/190 V AC/DC adjustable, operating voltage 24 V DC	4	1	09501237	198326
Dupline	Relay and shutter controls DRM 8 <i>8-way multifunction relay module</i>				
	DRM 8 Switching power 230 V AC/16 A, operating modes: 4-way roller shutter module or 4-way blind control module with incremental operation or 8-way relay module, operating voltage 24 V DC	4	1	09501233	198029
Dupline	Relay and shutter controls DSM 1U <i>one-channel relay module for in-wall installation</i>				
	DSM 1U Switching power 230 V AC/13 A, operating voltage from Dupline signal line		1	09501114	108424
Dupline	Relay and shutter controls DSM 4M <i>4-way relay module with increased surge current strength and manual operation</i>				
	DSM 4M Switching power 230 V AC/16 A, capacitive load max. 140 µF, manual operation of relay even without supply voltage, switch position feedback via Dupline, operating voltage 24 V DC	4	1	09501174	123694
Dupline	Visualisation components DSC 43-5.7 <i>touchscreen panel for visualization of the Dupline system</i>				
	DSC 43-5.7 5,7" TFT Display, 65.536 colours, USB, RS232/RS485, ethernet interface, CF card slot		1	09501508	217355

Couplers for external systems and voltages, Stabilized switching power supply, Pulse relays (remote switches), Relay and shutter controls

			mod. widths	pack. units	Article No.	EAN (4014712...)
Dupline 	Couplers for external systems and voltages DSI 1 <i>Dupline Modbus interface for connecting touch panel</i>					
	DSI 1	Modbus D-sub 25-pin, suitable for communication with Modbus master devices (touch panel, PCs), power supply via RS-485		1	09501116	108448
	Accessories: DSA 3, DSA 5					
Dupline 	Couplers for external systems and voltages DFA-DI <i>for remote actuators from series DFA 2</i>					
	DFA-DI	DFA remote actuators fitted with this plug-in module can be connected directly to the Dupline bus.		1	09100102	113794
cross-system 	Stabilized switching power supply NT 24 <i>electronically stabilised adaptor for building installation</i>					
	NT 24-0750	0.75 A	2	1	09500164	207080
	NT 24-2000	2 A	4	1	09500165	207097
	Primary voltage 230 V AC, secondary voltage 24 V DC					
SI-System 	Pulse relays (remote switches) SIR <i>System components of SI building management systems. Can also be used for system-independent control tasks.</i>					
	024 V DC / 16 A					
	SIR 16 L	Modular DIN rail component		1	1	09500153 064928
	SIR 16 M	Modular DIN rail component		1	1	09500210 086708
	024 V DC / 8 A					
	SIR 8 AN	In-wall (flush-mounted) device		1	09500051	015098
	Rated voltage 230 V AC					
SI-System 	Relay and shutter controls SIRO <i>Roller blind control device</i>					
	SIRO			2	1	09500152 047952
	Rated voltage 230 V AC, operating voltage 24 V DC, rated current 2 A, control voltage 24 V DC					
SI-System 	Relay and shutter controls SIRO-SL <i>Individual load relay for SIRO roller blind control. without decentralised function</i>					
	SIRO-SL			2	1	09500170 047969
	Rated voltage 230 V AC, operating voltage 24 V DC, rated current 2 A, control voltage 24 V DC					
SI-System 	Relay and shutter controls SIRO-SD <i>Roller blind control device for installation in distribution board or junction boxes (ø 68 mm)</i>					
	SIRO-SD			1	09500198	066847
	Rated voltage 230 V AC, operating voltage 24 V DC, rated current 2 A, control voltage 24 V DC					

Couplers for external systems and voltages, Time relays, Twilight switches, Sensors

			mod. widths	pack. units	Article No.	EAN (4014712...)
SI-System	Couplers for external systems and voltages SIPU <i>Pulse-voltage converters for smoothly adjustable electronic ballasts with interface 1-10 V</i>					
	SIPU Operating voltage 24 V DC, control voltage: PWM of LSG 1/2/3, SIDI 2, RUD 2, output: 1 - 10 V, relay: 10 A (max. 25 electronic ballasts with 58 W each)	SELLOUT	1	1	09500215	105270
SI-System	Couplers for external systems and voltages SIUP <i>Voltage-pulse converter for electronic potentiometer or for a current reduction 1-10 V</i>					
	SIUP Operating voltage 24 V DC, control input: Current reduction 1-10 V or electronic potentiometer, control output: PWM for LT 500 and LT 1200	SELLOUT	1	1	09500218	107885
SI-System	Couplers for external systems and voltages SISU <i>Signal converter for adjusting external voltages to the SI control voltage</i>					
	SISU Operating voltage 24 V DC, input voltage 12-50 V AC/DC and 110-230 AC/DC, output voltage 24 V DC		1	1	09500180	047990
SI-System	Time relays SIZ <i>For setting a fixed or variable delay.</i>					
	SIZ 15min 15 min		1	1	09500253	209398
	SIZ 30 min. 0.25 s ... max. 30 min		1	1	09500250	209367
	SIZ 30 H min. 2.5 min ... max. 30 h	SELLOUT	1	1	09500255	209411
	SIZ 30min 30 min		1	1	09500254	209404
	SIZ 30sec 30 s		1	1	09500252	209381
	SIZ 5sec 5 s		1	1	09500251	209374
	Operating voltage 24 V DC, control voltage 24 V DC, load capacity 200 mA short-circuit-proof, 2 outputs: 1 x static, 1 x dynamic					
SI-System	Twilight switches SIDS <i>Twilight switches for the SI system</i>					
	SIDS with LF 1 with LF 1 light sensor	SELLOUT	1	1	09500156	047914
	SIDS w/o LF 1 single device without light sensor	SELLOUT	1	1	09500172	047921
	Adjustment range 2-500 lux, adjustable switching hysteresis, power supply 24 V DC					
	Accessories: LF 1					
SI-System	Sensors SIDS, SIROLUX, EDS 16 <i>Light sensor individual devices</i>					
	LF 1		1		09500029	064553
	Light value detection for up to 10 SIROLUX, EDS, etc.					

Twilight switches, Radio and infrared receiver, Rain and wind sensors, Auxiliary Switches, Restart locking facilities

			mod. widths	pack. units	Article No.	EAN (4014712...)	
	SI-System	Twilight switches SIROLUX					
		<i>Twilight switches for the SI system with independently adjustable switch-on/off threshold</i>					
		SIROLUX with LF 1	with LF 1 light sensor	2	1	09500168	047976
		SIROLUX w/o LF 1	single device without light sensor	2	1	09500169	047983
		Adjustment range for twilight 1–200 lux (fixed hysteresis 1.5)/brightness 2000–200,000 lux (adjustable hysteresis 0.2–0.8), power supply 24 V DC/Adjustment range for twilight 1–200 lux (fixed hysteresis 1.5)/brightness 2000–200,000 lux (adjustable hysteresis 0.2–0.8), power supply 24 V DC					
	Accessories: LF 1						
	SI-System	Radio and infrared receiver SIFB 2					
		<i>Infrared receivers for on-wall mounting</i>					
		SIFB 2		1	09500222	122390	
		8 switching channels per receiver, up to 8 receivers can be cascaded, operating voltage 24 V DC					
	Accessories: DIR 2T						
	SI-System	Radio and infrared receiver SIFFB-E					
		<i>4-channel wireless receiver, on-wall and in-wall installation</i>					
		SIFFB-E		1	09500216	107205	
		Accessories: SIFFB-S					
	SI-System	Rain and wind sensors SIWS/SIWR					
		<i>robust, maintenance-free anemometer and evaluation unit</i>					
		SIWR	Evaluation unit for SIWS, adjustable, 24 V DC	2	1	09500208	077553
		SIWS	wind sensor, Reed contact, 250 mA	1	09500206	077539	
	Accessories: SIWS, SIWH						
	SI-System	Rain and wind sensors SIRW					
		<i>Rain sensor with heated sensor element</i>					
		SIRW		1	09500207	077546	
	Operating voltage 24 V DC/max. 150 mA, 2 potential-free changeover contacts 230 V/max. 2 A						
	Auxiliary Switches DHi for DFS 2/DFS 4						
		DHi 11	1 NC/1 CO	0.5	1	09200040	198388
		DHi 2 (black lever)	1 NC/1 CO	0.5	1	09913996	076983
		for DFS/DHS 2/4 series, retro-fittable					
	Restart locking facilities DEASS/WES/RH-SS						
		DEASS	for miniature circuit-breakers DLS 6	1	09917983	197268	
		RH-SS for RH	for main switches RH	1	09981068	158016	
		WES	for RCCB DFS and main switches DHS	1	09913993	149656	

Clamp covers, Documentations, Housings, Auxiliary Switches, Cables, Magnetic field centring bushes, Mounting tools

		mod. widths	pack. units	Article No.	EAN (4014712...)
	Clamp covers KA/RH-KA				
	<i>for protection against contact with voltage from leading terminals</i>				
	KA-DFS 2	for DFS/DHS 2, sealable	1	09200011	089440
	KA-DFS 4	for DFS/DHS 4, sealable	1	09200012	123779
	RH-KA	for isolators RH	1	09981069	158023
	Documentations HAS				
	<i>Information stickers for residual current circuit-breakers DFS 2 and DFS 4</i>				
	HAS DFS		1	09200021	215832
	Housings N 7				
	<i>for DFL 8 residual current circuit-breakers</i>				
	N 7 Housing		1	09200028	075412
	IP54, lockable, bracket diameter max. 6 mm				
	Auxiliary Switches DAX				
	<i>for DMCCB</i>				
	DAX 1-1	1 CO	1	09300081	220072
	DAX 2-1	1 CO	1	09300082	220089
	Cables DTCC				
	<i>RCM/MRCD cables Type B+</i>				
	DTCC-1	1 m	1	09340311	206458
	DTCC-2,5	2.5 m	1	09340312	206465
	DTCC-5	5 m	1	09340313	206472
	DTCC-10	10 m	1	09340314	206489
	Cables DTCC-RJ				
	<i>RCM/MRCD connection plugs Type B+</i>				
	DTCC-RJ45		1	09340315	206496
	RJ45 plug for self-assembly				
	Magnetic field centring bushes DMBT				
	<i>for increasing the permissible rated current for DCT A</i>				
	DMBT-035	28 mm	1	09340261	206366
	DMBT-070	62 mm	1	09340262	206373
	DMBT-105	98 mm	1	09340263	206380
	DMBT-140	133 mm	1	09340264	206397
	DMBT-210	203 mm	1	09340265	206403
	Mounting tools DCT Clip				
	<i>Mounting rail clip for residual current transformer 35 to 210 mm</i>				
	DCT Clip A		1	09340260	202764

Detectors/control panels, Cables, Auxiliary Switches, Operating current trips

		mod. widths	pack. units	Article No.	EAN (4014712...)
Detectors/control panels DMRP					
<i>acoustic and visual indicator and control panel</i>					
DMRP 230	Modular DIN rail component	2	1	09981110	216280
for protection and monitoring devices with signalling contacts, acoustic indicator can be switched off					
Detectors/control panels DMD-P					
<i>acoustic and visual indicator and control panel</i>					
DMD P	for DMD 2, wall-mounting		1	09352011	046146
for protection and monitoring devices with signalling contacts, acoustic indicator can be switched off					
Cables DFA 2-RC					
<i>Pre-assembled cable harness for test button function DFA 2</i>					
DFA 2 - RC 030	30 mA		1	09100150	213890
DFA 2 - RC 100	100 mA		1	09100151	213906
DFA 2 - RC 300	300 mA		1	09100152	213913
optional, for DFA 2-3 and DFA 2-4					
Auxiliary Switches DRCBO 4 HI					
<i>for series FIB/FIC Type A (three-pole +N design) and Type B, retro-fittable</i>					
DRCBO 4 Hi 1	1 CO	0.5	1	09200030	221437
Auxiliary Switches Hi					
<i>for series FIB/FIC Type A (1+N) and DRCBO 3, retro-fittable</i>					
Hi 11	1 NC/1 NO	0.5	1	09950012	130081
Operating current trips FAM					
<i>Operating current trips for RCCB/MCB one-pole +N design type A, retro-fittable</i>					
FAM 1		0.5	1	09950011	078529
Auxiliary Switches DHi					
<i>for DLS 6</i>					
DHi 3	1 NO	0.5	1	09917984	197275
DHi 4	1 NC/1 NO	0.5	1	09917985	197282
DHi 5	2 NC/1 NO	0.5	1	09917986	197299
DHi 6	1 NC/2 NO	0.5	1	09917987	197305
DHi 7	1 CO	0.5	1	09917988	197312
DHi 8	2 CO	0.5	1	09917989	197329
Operating current trips DASA/DMCB 2 ASA					
<i>for DLS 6 and DMCB 2 / for DLS 6 and DMCB 2</i>					
for DLS 6					
DASA 230	230 V	1	1	09917995	197381
DASA 24	24 V	1	1	09917993	197367
for DMCB 2					
DMCB 2 ASA 1		NEW 1.5	1	09915087	225770

Operating current trips, Undervoltage trips, Auxiliary Switches

			mod. widths	pack. units	Article No.	EAN (4014712...)
	Operating current trips DSHT 1					
	<i>for DMCCB 2 ESF/SSCJ, DMCCB 3 SSF</i>					
	DSHT 1-1	100 - 120 V AC		1	09300041	219830
	DSHT 1-2	200 - 240 V AC		1	09300042	219847
	DSHT 1-3	380 - 450 V AC		1	09300043	219854
	DSHT 1-4	24 V DC		1	09300044	219861
	DSHT 1-5	48 V DC		1	09300045	219878
	DSHT 1-6	100 - 120 V DC		1	09300046	219885
	DSHT 1-7	200 - 240 V DC		1	09300047	219892
	Operating current trips DSHT 2					
	<i>for DMCCB 1 SNJ, DMCCB 2 SNJ, DMCCB 3 SNJ, DMCCB 4, DMCCB 5, DMCCB 6, DMCCB 7</i>					
	DSHT 2-1	100 - 120 V AC		1	09300048	219908
	DSHT 2-2	200 - 240 V AC		1	09300049	219939
	DSHT 2-3	380 - 450 V AC		1	09300050	219946
	DSHT 2-4	12 V DC		1	09300051	219953
	DSHT 2-5	24 V DC		1	09300052	219960
	DSHT 2-6	48 V DC		1	09300053	219977
	DSHT 2-7	100 - 120 V DC		1	09300054	219984
	DSHT 2-8	200 - 240 V DC		1	09300055	219991
	Operating current trips DSHT 3					
	<i>for DMCCB 8</i>					
	DSHT 3-1	100 - 120 V AC		1	09300056	220003
	DSHT 3-2	200 - 240 V AC		1	09300057	220010
	DSHT 3-3	380 - 450 V AC		1	09300058	220027
	DSHT 3-4	24 V DC		1	09300059	220034
	DSHT 3-5	48 V DC		1	09300060	220041
	DSHT 3-6	100 - 120 V DC		1	09300061	220058
	DSHT 3-7	200 - 240 V DC		1	09300062	220065
	Undervoltage trips DUSA					
	<i>for DLS 6</i>					
	DUSA 230	230 V AC		1	09917998	197411
	Auxiliary Switches DHi-S					
	<i>trip-indicating auxiliary contacts</i>					
	DHi-S10	1 CO		0.5	09917990	197336
	DHi-S11	2 CO		0.5	09917991	197343
	Undervoltage trips DUVT 1					
	<i>for DMCCB 2 ESF/SSCJ, DMCCB 3 SSF</i>					
	DUVT 1-1	100 - 120 V AC		1	09300001	219632
	DUVT 1-2	200 - 240 V AC		1	09300002	219649
	DUVT 1-3	380 - 450 V AC		1	09300003	219656
	DUVT 1-4	24 V DC		1	09300004	219663
	DUVT 1-5	100 - 120 V DC		1	09300005	219670
	DUVT 1-6	200 - 240 V DC		1	09300006	219687

Undervoltage trips, Protective cover caps, Software, Documentations, Auxiliary Switches, Clamps

Undervoltage trips DUVT 2

for DMCCB 1 SNJ, DMCCB 2 SNJ, DMCCB 3 SNJ, DMCCB 4, DMCCB 5

		mod. widths	pack. units	Article No.	EAN (4014712...)
DUVT 2-1	100 - 120 V AC		1	09300007	219694
DUVT 2-2	200 - 240 V AC		1	09300008	219700
DUVT 2-3	380 - 450 V AC		1	09300009	219717
DUVT 2-4	24 V DC		1	09300010	219724
DUVT 2-5	100 - 120 V DC		1	09300011	219731
DUVT 2-6	200 - 240 V DC		1	09300012	219748

Undervoltage trips DUVT 3

for DMCCB 6, DMCCB 7, DMCCB 8

DUVT 3-1	100 - 120 V AC		1	09300013	219755
DUVT 3-2	200 - 240 V AC		1	09300014	219762
DUVT 3-3	380 - 450 V AC		1	09300015	219779
DUVT 3-4	24 V DC		1	09300016	220157
DUVT 3-5	100 - 120 V DC		1	09300017	219786
DUVT 3-6	200 - 240 V DC		1	09300018	219793
DUVT 3-7	115 - 120 V AC		1	09300019	219809
DUVT 3-8	230 - 240 V AC		1	09300020	219816
DUVT 3-9	440 - 450 V AC		1	09300021	219823

Protective cover caps DLS/RH

for DLS 6 miniature circuit-breakers and series RH main switches

Protective cover cap DLS/RH			1	09913997	067356
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Software Labelling applications

for DFS 2, DFS 4 and DLS 6

Labelling software for DLS 6, DFS 2/4			1	09917980	200395
Download free-of-charge online at www.doecke.de .					

Documentations Label sheets (printed)

for residual current circuit-breakers DFS 2/4 and miniature circuit-breakers DLS 6

Label sheet DLS 6			1	5900188	216938
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Auxiliary Switches DMCB 2 Hi

for DMCB 2

DMCB 2 Hi 1	1 NC/1 NO	NEW	0.5	1	09915086	225763
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Clamps ES

RCCB-Input terminals 6-25 mm²

ES/35 G/S	mountable side-by-side			1	09920099	015463
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Clamps, Protective cover caps, End caps, Fuse carrier sets

			mod. widths	pack. units	Article No.	EAN (4014712...)
	Clamps AS					
	<i>MCB-Input terminals 6-25 mm²</i>					
	AS 25-Gi	furcated cable lug design		1	09920104	015449
	AS 25-SLi	flange design, long		1	09920186	046061
	Protective cover caps EV-S BS					
	<i>for covering of unused terminals</i>					
	EV-S BS			1	09920160	021686
	Thermoplastic resin, yellow					
	End caps EK					
	<i>for busbars which can be cut to length</i>					
	EK-1/10/16	one-pole, for busbars 10/16 mm ²		1	09920097	202603
	EK-1/25/35	one-pole, for busbars 25/35 mm ²		1	09920096	202597
	EK-2/3/10/16	two-, three-pole, for busbars 10/16 mm ²		1	09920098	015425
	EK-2/3/35	two-, three-pole, for busbars 35 mm ²		1	09920094	202573
	Fuse carrier sets DSE D02					
	<i>electronic display (flashing indicators) / mechanical display</i>					
	electronic					
	DSE D02-01 EI	1 A, purple		1	09980109	048690
	DSE D02-02 EI	2 A, pink		1	09980110	048706
	DSE D02-04 EI	4 A, brown		1	09980111	048713
	DSE D02-06 EI	6 A, green		1	09980112	048720
	DSE D02-10 EI	10 A, red		1	09980113	048737
	DSE D02-16 EI	16 A, grey		1	09980114	048744
	DSE D02-20 EI	20 A, blue		1	09980115	048751
	DSE D02-25 EI	25 A, yellow		1	09980116	048768
	DSE D02-35 EI	35 A, black		1	09980117	048775
	DSE D02-40 EI	40 A, black		1	09980640	201866
	DSE D02-50 EI	50 A, white		1	09980118	048782
	DSE D02-63 EI	63 A, copper		1	09980119	048799
	mechanical					
	DSE D02-02 MI	2 A, pink		1	09980120	048805
	DSE D02-04 MI	4 A, brown		1	09980121	048812
	DSE D02-06 MI	6 A, green		1	09980122	048829
	DSE D02-10 MI	10 A, red		1	09980123	048836
	DSE D02-16 MI	16 A, grey		1	09980124	048843
	DSE D02-20 MI	20 A, blue		1	09980125	048850
	DSE D02-25 MI	25 A, yellow		1	09980126	048867
	DSE D02-35 MI	35 A, black		1	09980127	048874
	DSE D02-40 MI	40 A, black		1	09980641	201880
	DSE D02-50 MI	50 A, white		1	09980128	048881
	DSE D02-63 MI	63 A, copper		1	09980129	048898
	Standard series 230/400 V, 3 plugs, 3 fitted cartridges, 3 fuses, 1 box, for mounting the Do switch-disconnectors. Special series 24-48 V and 48-70 V AC/DC available upon request.					

Restart locking facilities, Mounting tools, Clamps, Capacitor blocks, Spacers, Auxiliary Switches, Sealable caps

Restart locking facilities Tytan locks

	mod. widths	pack. units	Article No.	EAN (4014712...)
Plastic lock, blue	3	1	09980136	048966
Plastic lock, yellow	3	1	09980138	048980
Plastic lock, green	3	1	09980137	048973
Plastic lock, red	3	1	09980139	048997
Plastic lock, black	3	1	09980135	048959
Cylinder lock 5A1, red	3	1	09980133	048935
Cylinder lock 5A2, yellow	3	1	09980134	048942
Cylinder lock 5A3, green	3	1	09980132	048928
Cylinder lock 5A4, blue	3	1	09980131	048911
Cylinder lock 5A5, black	3	1	09980130	048904

Mounting tools Coron2

for using Do1 fuses

Coron 2 Clip	1	09980674	132153
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Clamps double terminal

for looping through supply line

Double terminal, three-pole permissible connector cross-section 1.5 mm ² - 35 mm ²	1	09980140	049000
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Capacitor blocks RS-KB

for compensating for voltage increases

RS-KB	1	09981096	158009
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Spacers RD

for impulse relays RS/RSZ and installation relays RI

RD 05 Use a spacer on both sides at 100% duty cycle	0.5	1	09981095	156913
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Auxiliary Switches HSH

for HS 20 (four-pole)/ HS 25/ HS 40/ HS 63

HSH 11 1 NC/1 NO Rated current AC-1 10 A, AC-15 3 A	0.5	1	09980497	067233
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Sealable caps HSP

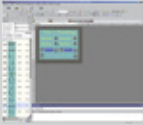
for HS installation contactors

HSP-25 for HS 20 (four-pole)/HS 25	1	09980498	067240
HSP-40/63 for HS 40/HS 63	1	09980499	067257

Base load modules, Mounting tools, Commissioning components

		mod. widths	pack. units	Article No.	EAN (4014712...)
	Base load modules FS-GZ				
	<i>for the mains field relay FSE 1</i>				
	FS-GZ		1	09700007	013476
	Signals the switching status of the mains field relay and allows a base load to be easily switched on at the socket				
	Base load modules FS-GE				
	<i>for the mains field relay FSE 1</i>				
	FS-GE		1	09700006	013469
	For installation in junction boxes and fluorescent lamp fittings. Required for loads that have high resistance when measuring voltage if 3 V AC, such as with fluorescent lamps and phase controls.				
	Mounting tools Fastening sets for Dasy				
	<i>for mounting on masts and pipes</i>				
	Fastening set for Dasy		1	09500049	161153
	consisting of 2 stainless steel brackets, 4 stainless steel screws, 1 stainless steel cable connector, for pipe diameters up to 150 mm				
	Mounting tools GGW				
	<i>for fixing the cable and setting the switching point for Champ float switches</i>				
	GGW	black, non-toxic PP	1	09921010	063082
	Mounting tools RK M				
	<i>for on-wall mounting</i>				
	RK M36	for RK 81, RK 81 S, RK 12, RK 12 S, RK 24	1	09980652	107410
	RK M54	for RK 3 U	1	09980653	107427
	Commissioning components DHK				
	<i>Handheld encoders for assigning Dupline addresses to modules</i>				
	DHK 1	Power supply from 9 V monobloc	1	09501103	096851
	including encoding cable DKP 1				
	Commissioning components DTG				
	<i>Test device for Dupline signals with LCD display</i>				
	DTG	Power supply from Dupline bus	1	09501113	108417
	Commissioning components Commissioning packages				
	<i>Set consists of DHK 1 and DTG</i>				
	Commissioning set		1	09501901	123670

Software, Remote controls, Antennas, Housings, Screen adaptors

			mod. widths	pack. units	Article No.	EAN (4014712...)
Dupline	Software DDS/Webserver					
	DDS 1 DDE-Server	DDE server for display in Excel, for example		1	37501149	
	Webserver	browser-based display		1	37501182	
Dupline	Software DSCconf					
	<i>Configuration software for DSC 43</i>					
	DSCconf EX			1	09501226	152649
Dupline, SI	Remote controls DFF/DIR/SIFFBDFF					
	<i>Insta wireless handheld transmitters / Infrared handheld transmitters / Wireless handheld transmitters</i>					
	DFF Komfort	for DCI 3 FB, 48 + 5 channels		1	09501234	198036
	DFF Mini	for DCI 3 FB, 4 channels		1	09501235	198043
	DIR 2T	for DIR 2 and SIFB 2, 8 channels, cascable		1	09501219	151338
	SIFFB-S	for SIFFB-E, 4 channels, cascable	SELLOUT	1	09500217	107212
Dupline	Antennas DDA/DGA					
	<i>for connection to channel generators</i>					
	DDA 1	active DCF antenna for DKG 20/DKG 21-GSM		1	09501191	135116
	DGA 1	GSM antenna for DKG 21-GSM		1	09501190	135109
Dupline	Housings DSC					
	<i>In-wall housing for DSC 43-5.7 touch panel</i>					
	DSC 30-UPG			1	09501231	157712
	Housing made of sheet steel, dimensions of in-wall part W 315 x H 132 x D 84 mm, recessed dimensions W 158 x H 132 x D 84 mm					
Dupline	Screen adaptors DSA					
	<i>Adaptor for connecting the DSCx touchscreen</i>					
	DSA 3	9-on-25-pin, DSC 10-485/DSC-20 on DSI 1		1	09501210	144293
	DSA 4	9-on-9-pin, DSC 10-232/DSC-20 on DKG 20/DKG 21-GSM		1	09501211	144309
	DSA 5	9-on-25-pin, DSC 30x on DSI 1		1	09501229	155244
	DSA 6	9-on-9-pin, DSC 30x on DKG 20/DKG 21-GSM		1	09501230	155251
	sealed-in printed circuit board, connections D-sub plug to D-sub socket					

Cables, Interface adapters, Training material, Documentations, Commissioning components, Clamps, Mounting tools

			mod. widths	pack. units	Article No.	EAN (4014712...)
	Dupline Cables DKK/DKM/DKP/DKT <i>Adaptor cables / Connection cables / Encoding cables</i>					
	DKK 1	Interface cables for DKG		1	09501129	111219
	DKK 2	Connection cables for DKG1		1	09501137	111455
	DKM 1	Connection cables for M12 plugs		1	09501140	111929
	DKP 1	Encoding cables for modular plugs		1	09501125	111226
	DKP 2	Encoding cables for tab connectors		1	09501126	111233
	DKP 3	Encoding cables for M12 connection		1	09501141	111936
	DKT 1	Connection cables, modular for test device		1	09501127	111240
	DKT 2	Connection cables, grip clamps for test device		1	09501128	111257
	Dupline Interface adapters DKA/DKK					
	DKA 1	Front adaptor for DKG 1/2	SELLOUT	1	09501143	113428
	DKK 3	Adaptor for DKK 1	SELLOUT	1	09501142	113282
	Dupline Training material Sample cases <i>Training and demo cases</i>					
	DSCD 1	Each case contains 1 x DKG 20, DKG 1, DTG 1, NT 24-750, DDMU 2plus, DRM 4, DSS 4U, DBA 4M-J, DLS 6. This practical case is suitable for both demonstrations and training and test setups. Get to know Dupline using a pre-assembled circuit.		1	09501999	123649
	Dupline Documentations Media <i>Documentation and software for Dupline and SI system</i>					
	Dupline and SI documentation CD			1	09501001	115118
	SI-System Commissioning components LSPG <i>for operating and configuring the LSG 1</i>					
	LSPG		SELLOUT	1	09500214	105263
	SI-System Clamps SIK/SIKD/SISBSIK					
	SIK	4 rows for max. 40 terminal points per row	SELLOUT	1	09500104	048287
	SIKD	20 four-way jumpers can be plugged into circuit board	SELLOUT	1	09500103	048270
	SISB	4-way jumpers for SIK/SIKD	SELLOUT	1	09500105	050600
	SIKD:	system terminal strips with 20 diodes				
	SI-System Mounting tools SIWH <i>Wall bracket with telescopic arm for SIWS and SIRW</i>					
	SIWH			1	09500212	100558

GENERAL CONDITIONS FOR THE SUPPLY OF PRODUCTS AND SERVICES OF THE ELECTRICAL AND ELECTRONICS INDUSTRY ("GL")*

for commercial transactions between businesses
recommended by ZVEI - Zentralverband Elektrotechnik- und Elektronikindustrie e. V.
– as of June 2011 –



* The original German text shall be the governing version.

ARTICLE I: GENERAL PROVISIONS

1. Legal relations between Supplier and Purchaser in connection with supplies and/or services of the Supplier (hereinafter referred to as „Supplies“) shall be solely governed by the present GL. The Purchaser's general terms and conditions shall apply only if expressly accepted by the Supplier in writing. The scope of delivery shall be determined by the congruent mutual written declarations.
2. The Supplier herewith reserves any industrial property rights and/or copyrights pertaining to its cost estimates, drawings and other documents (hereinafter referred to as „Documents“). The Documents shall not be made accessible to third parties without the Supplier's prior consent and shall, upon request, be returned without undue delay to the Supplier if the contract is not awarded to the Supplier. Sentences 1 and 2 shall apply mutatis mutandis to the Purchaser's Documents; these may, however, be made accessible to those third parties to whom the Supplier has rightfully subcontracted Supplies.
3. The Purchaser has the non-exclusive right to use standard software and firm-ware, provided that it remains unchanged, is used within the agreed performance parameters, and on the agreed equipment. Without express agreement the Purchaser may make one back-up copy of standard software.
4. Partial deliveries are allowed, unless they are unreasonable to accept for the Purchaser.
5. The term „claim for damages“ used in the present GL also includes claims for indemnification for useless expenditure.

ARTICLE II: PRICES, TERMS OF PAYMENT, AND SET-OFF

1. Prices are ex works and excluding packaging; value added tax shall be added at the then applicable rate.
2. If the Supplier is also responsible for assembly or erection and unless otherwise agreed, the Purchaser shall pay the agreed remuneration and any incidental costs required, e. g. for traveling and transport as well as allowances.
3. Payments shall be made free Supplier's paying office.
4. The Purchaser may set off only those claims which are undisputed or non-appealable.

ARTICLE III: RETENTION OF TITLE

1. The items pertaining to the Supplies („Retained Goods“) shall remain the Supplier's property until each and every claim the Supplier has against the Purchaser on account of the business relationship has been fulfilled. If the combined value of the Supplier's security interests exceeds the value of all secured claims by more than 20 %, the Supplier shall release a corresponding part of the security interest if so requested by the Purchaser; the Supplier shall be entitled to choose which security interest it wishes to release.
2. For the duration of the retention of title, the Purchaser may not pledge the Retained Goods or use them as security, and resale shall be possible only for resellers in the ordinary course of their business and only on condition that the reseller receives payment from its customer or makes the transfer of property to the customer dependent upon the customer fulfilling its obligation to effect payment.
3. Should Purchaser resell Retained Goods, it assigns to the Supplier, already today, all claims it will have against its customers out of the resale, including any collateral rights and all balance claims, as security, without any subsequent declarations to this effect being necessary. If the Retained Goods are sold on together with other items and no individual price has been agreed with respect to the Retained Goods, Purchaser shall assign to the Supplier such fraction of the total price claim as is attributable to the price of the Retained Goods invoiced by Supplier.
4. (a) Purchaser may process, amalgamate or combine Retained Goods with other items. Processing is made for Supplier. Purchaser shall store the new item thus created for Supplier, exercising the due care of a diligent businessperson. The new items are considered as Retained Goods.
(b) Already today, Supplier and Purchaser agree that if Retained Goods are combined or amalgamated with other items that are not the property of Supplier, Supplier shall acquire co-ownership in the new item in proportion of the value of the Retained Goods combined or amalgamated to the other items at the time of combination or amalgamation. In this respect, the new items are considered as Retained Goods.
(c) The provisions on the assignment of claims according to No. 3 above shall also apply to the new item. The assignment, however, shall only apply to the amount

corresponding to the value invoiced by Supplier for the Retained Goods that have been processed, combined or amalgamated.

- (d) Where Purchaser combines Retained Goods with real estate or movable goods, it shall, without any further declaration being necessary to this effect, also assign to Supplier as security its claim to consideration for the combination, including all collateral rights for the prorata amount of the value the combined Retained Goods have on the other combined items at the time of the combination.
5. Until further notice, Purchaser may collect assigned claims relating to the resale. Supplier is entitled to withdraw Purchaser's permission to collect funds for good reason, including, but not limited to delayed payment, suspension of payments, start of insolvency proceedings, protest or justified indications for overindebtedness or pending insolvency of Purchaser. In addition, Supplier may, upon expiry of an adequate period of notice disclose the assignment, realize the claims assigned and demand that Purchaser informs its customer of the assignment.
6. The Purchaser shall inform the Supplier forthwith of any seizure or other act of intervention by third parties. If a reasonable interest can be proven, Purchaser shall, without undue delay, provide Supplier with the information and/or Documents necessary to assert the claims it has against its customers.
7. Where the Purchaser fails to fulfill its duties, fails to make payment due, or otherwise violates its obligations the Supplier shall be entitled to rescind the contract and take back the Retained Goods in the case of continued failure following expiry of a reasonable remedy period set by the Supplier; the statutory provisions providing that a remedy period is not needed shall be unaffected. The Purchaser shall be obliged to return the Retained Goods. The fact that the Supplier takes back Retained Goods and/or exercises the retention of title, or has the Retained Goods seized, shall not be construed to constitute a rescission of the contract, unless the Supplier so expressly declares.

ARTICLE IV: TIME FOR SUPPLIES; DELAY

1. Times set for Supplies shall only be binding if all Documents to be furnished by the Purchaser, necessary permits and approvals, especially concerning plans, are received in time and if agreed terms of payment and other obligations of the Purchaser are fulfilled. If these conditions are not fulfilled in time, times set shall be extended reasonably; this shall not apply if the Supplier is responsible for the delay.
2. If non-observance of the times set is due to:
(a) force majeure, such as mobilization, war, terror attacks, rebellion or similar events (e. g. strike or lockout);
(b) virus attacks or other attacks on the Supplier's IT systems occurring despite protective measures were in place that complied with the principles of proper care;
(c) hindrances attributable to German, US or otherwise applicable national, EU or international rules of foreign trade law or to other circumstances for which Supplier is not responsible; or
(d) the fact that Supplier does not receive its own supplies in due time or in due form such times shall be extended accordingly.
3. If the Supplier is responsible for the delay (hereinafter referred to as „Delay“) and the Purchaser has demonstrably suffered a loss therefrom, the Purchaser may claim a compensation as liquidated damages of 0.5 % for every completed week of Delay, but in no case more than a total of 5 % of the price of that part of the Supplies which due to the Delay could not be put to the intended use.
4. Purchaser's claims for damages due to delayed Supplies as well as claims for damages in lieu of performance exceeding the limits specified in No. 3 above are excluded in all cases of delayed Supplies, even upon expiry of a time set to the Supplier to effect the Supplies. This shall not apply in cases of liability based on intent, gross negligence, or due to loss of life, bodily injury or damage to health. Rescission of the contract by the Purchaser based on statute is limited to cases where the Supplier is responsible for the delay. The above provisions do not imply a change in the burden of proof to the detriment of the Purchaser.
5. At the Supplier's request, the Purchaser shall declare within a reasonable period of time whether it, due to the delayed Supplies, rescinds the contract or insists on the delivery of the Supplies.
6. If dispatch or delivery, due to Purchaser's request, is delayed by more than one month after notification of the readiness for dispatch was given, the Purchaser

may be charged, for every additional month commenced, storage costs of 0.5 % of the price of the items of the Supplies, but in no case more than a total of 5 %. The parties to the contract may prove that higher or, as the case may be, lower storage costs have been incurred.

ARTICLE V: PASSING OF RISK

1. Even where delivery has been agreed freight free, the risk shall pass to the Purchaser as follows:
 - (a) if the delivery does not include assembly or erection, at the time when it is shipped or picked up by the carrier. Upon the Purchaser's request, the Supplier shall insure the delivery against the usual risks of transport at the Purchaser's expense;
 - (b) if the delivery includes assembly or erection, at the day of taking over in the Purchaser's own works or, if so agreed, after a successful trial run.
2. The risk shall pass to the Purchaser if dispatch, delivery, the start or performance of assembly or erection, the taking over in the Purchaser's own works, or the trial run is delayed for reasons for which the Purchaser is responsible or if the Purchaser has otherwise failed to accept the Supplies.

ARTICLE VI: ASSEMBLY AND ERECTION

Unless otherwise agreed in written form, assembly and erection shall be subject to the following provisions:

1. Purchaser shall provide at its own expense and in due time:
 - (a) all earth and construction work and other ancillary work outside the Supplier's scope, including the necessary skilled and unskilled labor, construction materials and tools;
 - (b) the equipment and materials necessary for assembly and commissioning such as scaffolds, lifting equipment and other devices as well as fuels and lubricants;
 - (c) energy and water at the point of use including connections, heating and lighting;
 - (d) suitable dry and lockable rooms of sufficient size adjacent to the site for the storage of machine parts, apparatus, materials, tools, etc. and adequate working and recreation rooms for the erection personnel, including sanitary facilities as are appropriate in the specific circumstances; furthermore, the Purchaser shall take all measures it would take for the protection of its own possessions to protect the possessions of the Supplier and of the erection personnel at the site;
 - (e) protective clothing and protective devices needed due to particular conditions prevailing on the specific site.
2. Before the erection work starts, the Purchaser shall unsolicitedly make available any information required concerning the location of concealed electric power, gas and water lines or of similar installations as well as the necessary structural data.
3. Prior to assembly or erection, the materials and equipment necessary for the work to start must be available on the site of assembly or erection and any preparatory work must have advanced to such a degree that assembly or erection can be started as agreed and carried out without interruption. Access roads and the site of assembly or erection must be level and clear.
4. If assembly, erection or commissioning is delayed due to circumstances for which the Supplier is not responsible, the Purchaser shall bear the reasonable costs incurred for idle times and any additional traveling expenditure of the Supplier or the erection personnel.
5. The Purchaser shall attest to the hours worked by the erection personnel towards the Supplier at weekly intervals and the Purchaser shall immediately confirm in written form if assembly, erection or commissioning has been completed.
6. If, after completion, the Supplier demands acceptance of the Supplies, the Purchaser shall comply therewith within a period of two weeks. The same consequences as upon acceptance arise if and when the Purchaser lets the two week period expire or the Supplies are put to use after completion of agreed test phases, if any.

ARTICLE VII: RECEIVING SUPPLIES

The Purchaser shall not refuse to receive Supplies due to minor defects.

ARTICLE VIII: DEFECTS AS TO QUALITY

The Supplier shall be liable for defects as to quality („Sachmängel“, hereinafter referred to as „Defects“) as follows:

1. Defective parts or defective services shall be, at the Supplier's discretion, repaired, replaced or provided again free of charge, provided that the reason for the Defect had already existed at the time when the risk passed.
2. Claims for repair or replacement are subject to a statute of limitations of 12 months calculated from the start of the statutory statute of limitations; the same shall apply mutatis mutandis in the case of rescission and reduction. This shall not apply where longer periods are prescribed by law according to Sec. 438 para. 1 No. 2 (buildings and things used for a building), Sec. 479 para. 1 (right of recourse), and Sec. 634a para. 1 No. 2 (defects of a building) German Civil Code („Bürgerliches Gesetzbuch“), in the case of intent, fraudulent concealment of the Defect or non-compliance with guaranteed characteristics

(„Beschaffenhheitsgarantie“). The legal provisions regarding suspension of the statute of limitations („Ablaufhemmung“, „Hemmung“) and recommencement of limitation periods shall be unaffected.

3. Notifications of Defect by the Purchaser shall be given in written form without undue delay.
4. In the case of notification of a Defect, the Purchaser may withhold payments to an amount that is in a reasonable proportion to the Defect. The Purchaser, however, may withhold payments only if the subject-matter of the notification of the Defect involved is justified and incontestable. The Purchaser has no right to withhold payments to the extent that its claim of a Defect is time-barred. Unjustified notifications of Defect shall entitle the Supplier to demand reimbursement of its expenses by the Purchaser.
5. The Supplier shall be given the opportunity to repair or to replace the defective good („Nacherfüllung“) within a reasonable period of time.
6. If repair or replacement is unsuccessful, the Purchaser is entitled to rescind the contract or reduce the remuneration; any claims for damages the Purchaser may have according to No. 10 shall be unaffected.
7. There shall be no claims based on Defect in cases of insignificant deviations from the agreed quality, of only minor impairment of usability, of natural wear and tear, or damage arising after the passing of risk from faulty or negligent handling, excessive strain, unsuitable equipment, defective civil works, inappropriate foundation soil, or claims based on particular external influences not assumed under the contract, or from non-reproducible software errors. Claims based on defects attributable to improper modifications or repair work carried out by the Purchaser or third parties and the consequences thereof are likewise excluded.
8. The Purchaser shall have no claim with respect to expenses incurred in the course of supplementary performance, including costs of travel, transport, labor, and material, to the extent that expenses are increased because the subjectmatter of the Supplies has subsequently been brought to another location than the Purchaser's branch office, unless doing so complies with the normal use of the Supplies.
9. The Purchaser's right of recourse against the Supplier pursuant to Sec. 478 BGB is limited to cases where the Purchaser has not concluded an agreement with its customers exceeding the scope of the statutory provisions governing claims based on Defects. Moreover, No. 8 above shall apply mutatis mutandis to the scope of the right of recourse the Purchaser has against the Supplier pursuant to Sec. 478 para. 2 BGB.
10. The Purchaser shall have no claim for damages based on Defects. This shall not apply to the extent that a Defect has been fraudulently concealed, the guaranteed characteristics are not complied with, in the case of loss of life, bodily injury or damage to health, and/or intentionally or grossly negligent breach of contract on the part of the Supplier. The above provisions do not imply a change in the burden of proof to the detriment of the Purchaser. Any other or additional claims of the Purchaser exceeding the claims provided for in this

ARTICLE VIII, BASED ON A DEFECT, ARE EXCLUDED.

ARTICLE IX: INDUSTRIAL PROPERTY RIGHTS AND COPYRIGHTS; DEFECTS IN TITLE

1. Unless otherwise agreed, the Supplier shall provide the Supplies free from third parties' industrial property rights and copyrights (hereinafter referred to as „IPR“) with respect to the country of the place of delivery only. If a third party asserts a justified claim against the Purchaser based on an infringement of an IPR by the Supplies made by the Supplier and used in conformity with the contract, the Supplier shall be liable to the Purchaser within the time period stipulated in

ARTICLE VIII NO. 2 AS FOLLOWS:

- (a) The Supplier shall choose whether to acquire, at its own expense, the right to use the IPR with respect to the Supplies concerned or whether to modify the Supplies such that they no longer infringe the IPR or replace them. If this would be impossible for the Supplier under reasonable conditions, the Purchaser may rescind the contract or reduce the remuneration pursuant to the applicable statutory provisions;
- (b) The Supplier's liability to pay damages is governed by Article XII;
- (c) The above obligations of the Supplier shall apply only if the Purchaser (i) immediately notifies the Supplier of any such claim asserted by the third party in written form, (ii) does not concede the existence of an infringement and (iii) leaves any protective measures and settlement negotiations to the Supplier's discretion. If the Purchaser stops using the Supplies in order to reduce the damage or for other good reason, it shall be obliged to point out to the third party that no acknowledgement of the alleged infringement may be inferred from the fact that the use has been discontinued.
2. Claims of the Purchaser shall be excluded if it is responsible for the infringement of an IPR.
3. Claims of the Purchaser are also excluded if the infringement of the IPR is caused by specifications made by the Purchaser, by a type of use not foreseeable by the Supplier or by the Supplies being modified by the Purchaser or being used together with products not provided by the Supplier.

4. In addition, with respect to claims by the Purchaser pursuant to No. 1 a) above, Article VIII Nos. 4, 5, and 9 shall apply mutatis mutandis in the event of an infringement of an IPR.
5. Where other defects in title occur, Article VIII shall apply mutatis mutandis.
6. Any other claims of the Purchaser against the Supplier or its agents or any such claims exceeding the claims provided for in this Article IX, based on a defect in title, are excluded.

ARTICLE X: CONDITIONAL PERFORMANCE

1. The performance of this contract is conditional upon that no hindrances attributable to German, US or otherwise applicable national, EU or international rules of foreign trade law or any embargos or other sanctions exist.
2. The Purchaser shall provide any information and Documents required for export, transport and import purposes.

ARTICLE XI: IMPOSSIBILITY OF PERFORMANCE; ADAPTATION OF CONTRACT

1. To the extent that delivery is impossible, the Purchaser is entitled to claim damages, unless the Supplier is not responsible for the impossibility. The Purchaser's claim for damages is, however, limited to an amount of 10 % of the value of the part of the Supplies which, owing to the impossibility, cannot be put to the intended use. This limitation shall not apply in the case of liability based on intent, gross negligence or loss of life, bodily injury or damage to health; this does not imply a change in the burden of proof to the detriment of the Purchaser. The Purchaser's right to rescind the contract shall be unaffected.
2. Where events within the meaning of Article IV No. 2 (a) to (c) substantially change the economic importance or the contents of the Supplies or considerably affect the Supplier's business, the contract shall be adapted taking into account the principles of reasonableness and good faith. To the extent this is not justifiable for economic reasons, the Supplier shall have the right to rescind the contract. The same applies if required export permits are not granted or cannot be used. If the Supplier intends to exercise its right to rescind the contract, it shall notify the Purchaser thereof without undue delay after having realized the repercussions of the event; this shall also apply even where an extension of the delivery period has previously been agreed with the Purchaser.

ARTICLE XII: OTHER CLAIMS FOR DAMAGES

1. Unless otherwise provided for in the present GL, the Purchaser has no claim for damages based on whatever legal reason, including infringement of duties arising in connection with the contract or tort.
2. This does not apply if liability is based on: (a) the German Product Liability Act ("Produkthaftungsgesetz");
(b) intent;
(c) gross negligence on the part of the owners, legal representatives or executives;
(d) fraud;
(e) failure to comply with a guarantee granted;
(f) negligent injury to life, limb or health; or
(g) negligent breach of a fundamental condition of contract ("wesentliche Vertragspflichten").

However, claims for damages arising from a breach of a fundamental condition of contract shall be limited to the foreseeable damage which is intrinsic to the contract, provided that no other of the above case applies.

3. The above provision does not imply a change in the burden of proof to the detriment of the Purchaser.

ARTIKEL XIII: VENUE AND APPLICABLE LAW

1. If the Purchaser is a businessman, sole venue for all disputes arising directly or indirectly out of the contract shall be the Supplier's place of business. However, the Supplier may also bring an action at the Purchaser's place of business.
2. This contract and its interpretation shall be governed by German law, to the exclusion of the United Nations Convention on contracts for the International Sale of Goods (CISG).

ARTICLE XIV: SEVERABILITY CLAUSE

The legal invalidity of one or more provisions of this Agreement in no way affects the validity of the remaining provisions. This shall not apply if it would be unreasonably onerous for one of the parties to be obligated to continue the contract.

Software Clause

for the provision of standard software forming an integral part of supplies

Supplementing and amending the “General Conditions for the supply of Products and Services of the Electrical and Electronics Industry” (GL)*

– as of April 2012 –

* The original German text shall be the governing version.



1. Scope of application of the software clause

- (a) This Software Clause shall apply exclusively to the provision of standard software for a limited or unlimited period as a part of or in connection with the supply of related hardware (such software hereinafter referred to as “Software”), as well as to the entire Supplies, to the extent that a breach of contract or impairment of performance has its cause in the Software. Furthermore, hardware shall be solely subject to the conditions of the GL.
- (b) Firmware is not “Software” within the meaning of this Software Clause.
- (c) The GL shall apply to those matters as far as not specifically covered in this Software Clause.
- (d) The Supplier does not assume any obligation to perform software services by virtue of this Software Clause. Such services require a separate agreement.

2. Documentation

Article I No. 2 GL shall be supplemented as follows: The provision of documentation requires a separate agreement in writing. If documentation is to be provided, the term “Software” hereinafter shall also include the documentation.

3. Rights of use

Article I No. 3 GL shall be replaced as follows:

- (a) The Supplier grants the Purchaser the non-exclusive right of use to the Software. Provided that nothing to the contrary is agreed, the right of use applies in the country in which the hardware is supplied. The right of use is limited to the agreed period of time, in the absence of such agreement, the right of use shall be unlimited in time.
- (b) The following supplementary conditions shall apply where the right of use is subject to a time limit: The Purchaser may only use the software with the hardware specified in the contractual documentation (e.g. Software product certificate) or, in the absence of any such specification, with the relevant hardware supplied with the software. The use of the Software on any other device shall require the express prior written consent of the Supplier and shall, if used on a more powerful device, entitle the Supplier to claim an appropriate additional remuneration; this does not apply, however, to the extent and for the period in which the Purchaser uses a temporary substitute device within the agreed scope of use because of a defect in the agreed device.
- (c) Where the contract documents refer to more than one device, the Purchaser shall not install or use the Software provided on more than one of these devices simultaneously (Single License), to the extent that it has not been granted a Multiple License pursuant to No. 3 (j) below. Where more than one workplace exists for a specific device where the Software can be used independently, the Single License shall apply to only one workplace.
- (d) The Software shall exclusively be provided in machine readable format (object code).
- (e) The Purchaser shall be entitled to make only one copy of the Software, which may solely be used for back-up purposes (back-up copy). Any other duplication on the part of the Purchaser shall be allowed only subject to a Multiple License pursuant to No. 3 (j) below.
- (f) Save as provided for in Sec. 69 (e) (decompilation) of the German Copyright Act, the Purchaser shall not be entitled to modify, decompile, translate, or isolate parts of the Software. The Purchaser shall not remove alphanumeric or other identifiers from the data medium and shall transfer such identifiers unchanged to any backup copy.
- (g) The Supplier grants the Purchaser the right – which shall be revocable for good cause – to assign the right of use granted to it to a third party. However, the Purchaser to whom the Software has not been provided for commercial resale shall pass on the right of use to the Software to third parties only together with the device it has bought in combination with the Software from the Supplier. If the right of use is transferred to a third party, the Purchaser shall ensure that the right of use granted to the third party does not exceed the scope of rights to the Software granted to the Purchaser under this Agreement, and the Purchaser shall ensure that the third party shall be obliged to comply with at least the same obligations in relation to the Software as are imposed herein. When doing so, the Purchaser may not retain copies of the Software. The Purchaser shall not be entitled to grant sub-licenses. Where the Purchaser provides the Software to a third party, the Purchaser shall ensure that any existing export requirements are observed and shall release the Supplier from any obligations in this respect.

- (h) For software for which the Supplier only holds a derived right of use and which is not Open Source Software (external software), in addition to and with priority over the conditions in this point 3, the conditions of use agreed between the Supplier and its licensor shall apply to the extent that they relate to the Purchaser (e.g. End User License Agreement); the Supplier shall inform the Purchaser of this and make the agreements available to the Purchaser on request.
- (i) For open source Software, the provisions of this No. 3 shall be superseded by the conditions of use underlying the open source Software. The Supplier shall only provide the Purchaser with the source code or make this available to the extent that this is required by the conditions of use for the open source Software. The Supplier shall make the Purchaser aware of the presence and the usage conditions of provided open source Software and make the conditions of use available to the Purchaser, or hand these over to the extent that this is required according to the conditions of use.
- (j) For the use of the Software on more than one device or simultaneously at more than one workplace, the Purchaser shall require a separate agreement on the right of use. The same shall apply if the Software is used in networks even if the Software is not copied for this purpose. With regard to the situations named above (hereinafter referred to as “Multiple License”) the following provisions (aa) and (bb) shall apply in addition to and with priority over the provisions of this No. 3 (a) to (i):
 - (aa) A Multiple License requires that the Supplier expressly confirms in writing the number of admissible copies that the Purchaser may make of the Software provided and the number of devices and/or workplaces where the Software may be used. No. 3 (g) second sentence shall be applicable to Multiple Licenses provided that they may be transferred by the Purchaser to third parties only if transferred in their totality and together with all devices on which the use of the Software is allowed.
 - (bb) The Purchaser shall observe the duplication rules provided by the Supplier together with the Multiple License. The Purchaser shall keep records on the whereabouts of all copies made and submit them to the Supplier upon request.

4. Transfer of risk

Article V GL shall be supplemented as follows:

If the Software is provided via electronic communication media (e. g. via the internet) the risk shall transfer when the Software leaves the sphere of influence of the Supplier (e. g. when making a download).

5. Additional obligations to co-operate on the part of the Purchaser and liability

Article VI GL shall be supplemented as follows:

The Purchaser shall take all required and reasonable measures to prevent or limit damage attributable to the Software. In particular, the Purchaser shall make regular back-up copies of the programs and data. To the extent the Purchaser negligently breaches this obligation, the Supplier shall not be liable for any consequences arising therefrom; this shall apply in particular to the replacement of lost or damaged data or programs. The above provision does not imply a change in the burden of proof.

6. Defects as to quality (“the defects”)

In the case of Software provided for an unlimited period of time, Article VIII GL shall be replaced by the following:

- (a) Claims based on Defects of the Software are subject to a statute of limitations of 12 months. This provision shall not apply where longer periods are prescribed by law according to Sec. 438 para. 1 No. 2 (buildings and items used for a building), Sec. 479 para. 1 (right of recourse), and Sec. 634 a para. 1 No. 2 (defects of a building) German Civil Code (“BGB”), as well as in cases of culpable loss of life, bodily injury or damage to health, or where the Supplier intentionally or as a result of gross negligence fails to fulfil its obligation or fraudulently conceals a Defect, and in the event of non-compliance with the guarantee of quality. The statute of limitations commences upon the transfer of risk to the Purchaser. The legal provisions regarding suspension of the statute of limitations (“Ablaufhemmung”, “Hemmung”) and recommencement of limitation periods remain unaffected.
- (b) Software is considered to be defective only if the Purchaser can prove that there are reproducible deviations from the specifications. A Defect shall not be deemed to exist if it does not manifest itself in the latest version supplied to the Purchaser, and the use thereof by Purchaser can reasonably be required.

(c) Notification of Defects from the Purchaser shall be given in writing without undue delay. Defects and the relevant data processing environment shall be described as precisely as possible therein.

(d) Claims based on Defects do not exist in the cases of any of the following

- insignificant deviations from the agreed characteristics,
- only minor impairment of usability,
- damage from faulty or negligent handling,
- damage from particular external influences not assumed under the contract,
- modifications or extensions made by the Purchaser or third parties, and any consequences resulting therefrom,
- incompatibility of the Software provided with the data processing environment of the Purchaser.

(e) In the case of defective Software, the Supplier shall be first given the opportunity to repair or replace the Software ("Nacherfüllung") within a reasonable period of time. The Supplier shall be entitled to choose between repair and replacement.

(f) Unless the Supplier chooses otherwise, the Supplier will correct the Defect in the Software as follows:

(aa) The Supplier will provide a replacement by way of an update or an upgrade of the Software if available to the Supplier or obtainable with reasonable efforts by the Supplier. If the Purchaser has been granted a Multiple License by the Supplier, it may make a corresponding number of copies of the update, or, as the case may be, upgrade.

(bb) Until an update, or, as the case may be, upgrade is provided, the Supplier will make available to the Purchaser an interim solution bypassing the Defect, provided that this does not result in unreasonable expenditures and that the Purchaser would otherwise, due to the Defect, be unable to complete work that cannot be delayed.

(cc) If a data medium or documentation supplied proves to be defective, the Purchaser's right shall be limited to demanding that the Supplier replace it with a non-defective version.

(dd) The Supplier shall have the right to choose whether it corrects the Defect at the location of the Purchaser or at its own location. If the Supplier chooses to correct the Defect at the Purchaser's location, the Purchaser shall assure that the required hardware and software as well as the required operating conditions (including the required computing time) and qualified operating personnel are available. The Purchaser shall submit to the Supplier the documents and information available to it and required for Defect correction.

(ee) The Purchaser shall enable remote maintenance access at the request of the Supplier.

(g) If the Defect cannot be corrected, the Purchaser shall be entitled to rescind the contract or reduce the remuneration, irrespective of any claims for damages it may have according to Article XII GL.

(h) Upon notification of a Defect, the Purchaser may withhold payments to a reasonable extent taking into account the Defect involved. The Purchaser, however, may withhold payments only if the subject-matter of the notification is justified beyond doubt. Notification without cause shall entitle the Supplier to reimbursement of its expenses by the Purchaser.

(i) Claims for damages shall furthermore be subject to Article XII GL. Any other Defect claims or Defect claims beyond those regulated in this No. 6 by the Purchaser against the Supplier or its agents shall be excluded.

(2) In the case of Software provided for a limited period of time, Article VIII GL shall be replaced by the following:

(a) Software is considered to be defective only if the Purchaser can prove that there are reproducible deviations from the specifications. A Defect shall not be deemed to exist if it does not manifest itself in the latest version supplied to the Purchaser, and the use thereof by Purchaser can reasonably be required.

(b) Notification of Defects from the Purchaser shall be given in writing without undue delay. Defects and the relevant data processing environment shall be described as precisely as possible therein.

(c) Claims based on Defects do not exist in the cases of any of the following

- insignificant deviations from the agreed characteristics,
- only minor impairment of usability,
- damage from faulty or negligent handling,
- damage from particular external influences not assumed under the contract,
- modifications or extensions made by the Purchaser or third parties, and any consequences resulting therefrom,
- incompatibility of the Software provided with the data processing environment of the Purchaser.

(d) In the case of defective Software, the Supplier shall be first given the opportunity to repair or replace the Software ("Nacherfüllung") within a reasonable period of time. The Supplier shall be entitled to choose between repair and replacement.

(e) Unless the Supplier chooses otherwise, the Supplier will correct the Defect in the Software as follows:

(aa) The Supplier will provide a replacement by way of an update or an upgrade of the Software if available to the Supplier or obtainable with reasonable efforts by the Supplier. If the Purchaser has been granted a Multiple License by the Supplier, it may make a corresponding number of copies of the update, or, as the case may be, upgrade.

(bb) Until an update, or, as the case may be, upgrade is provided, the Supplier will make available to the Purchaser an interim solution bypassing the Defect, provided that this does not result in unreasonable expenditures and that the Purchaser would otherwise, due to the Defect, be unable to complete work that cannot be delayed.

(cc) If a data medium or documentation supplied proves to be defective, the Purchaser's right shall be limited to demanding that the Supplier replace it with a non-defective version.

(dd) The Supplier shall have the right to choose whether it corrects the Defect at the location of the Purchaser or at its own location. If the Supplier chooses to correct the Defect at the Purchaser's location, the Purchaser shall assure that the required hardware and software as well as the required operating conditions (including the required computing time) and qualified operating personnel are available. The Purchaser shall submit to the Supplier the documents and information available to it and required for Defect correction.

(ee) The Purchaser shall enable remote maintenance access at the request of the Supplier.

(f) If the Defect cannot be corrected, the Purchaser shall be entitled to rescind the contract without notice or reduce the remuneration, irrespective of any claims for damages it may have according to Article XII GL.

(g) Claims for damages shall furthermore be subject to Article XII GL. Any other Defect claims or Defect claims beyond those regulated in this No. 6 by the Purchaser against the Supplier or its agents shall be excluded.

7. Industrial property rights and copyright; defects in title

Article IX GL shall be replaced as follows:

Unless otherwise agreed, the Supplier shall provide the Supplies free from third parties' industrial property rights and copyrights (hereinafter referred to as "IPR") with respect to the country of the place of delivery only. If a third party asserts a justified claim against the Purchaser based on an infringement of an IPR by the Supplies made by the Supplier and used in conformity with the contract, the Supplier shall be liable to the Purchaser – in the case of Software provided for an unlimited time period within the contractual limitation period stipulated for Defects; in the case of Software provided for a limited time period within the statutory limitation period – as follows:

(a) At its discretion and at its cost, the Supplier shall either obtain a right of use for the relevant Supplies, amend the Supplies so that they do not infringe the IPR, or replace the Supplies. If it is not possible for the Supplier to do this under reasonable conditions, the Purchaser shall be entitled to the statutory rights of withdrawal or to reduce the price.

(b) Other than this, the Supplier's obligation to provide compensation shall be based on article XII GL.

(c) The Supplier's obligations listed above shall only exist if the Purchaser informs the Supplier immediately and in writing about the claims made by the third party, does not acknowledge that there is an infringement and if all defence measures and settlement negotiations are reserved for the Supplier. If the Purchaser ceases the use of the Supplies for reasons relating to mitigating losses or other important reasons then it is obliged to inform the third party that the cessation of use does not involve an acknowledgement that an IPR has been infringed.

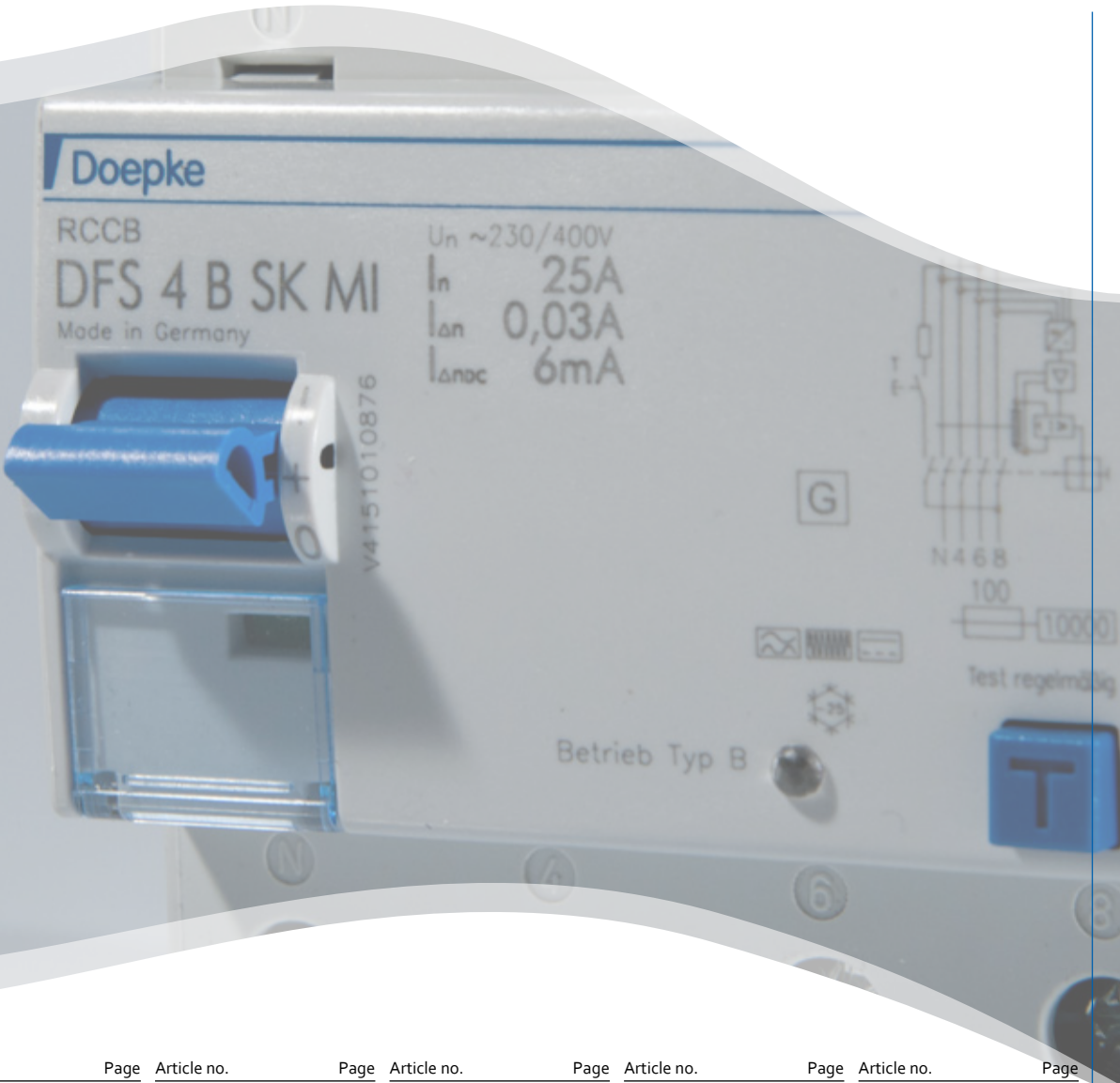
(2) Claims from the Purchaser are excluded if it is responsible for the infringement of an IPR.

(3) Claims from the Purchaser are also excluded if the infringement of the IPR is caused by special requirements from the Purchaser, by an application that could not have been anticipated by the Supplier or are caused by the Supplies being amended by the Purchaser or being used with products not supplied by the Supplier.

(4) In addition, with respect to claims by the Purchaser pursuant to Point 7 No. 1 (a) above, No. 6 para. 1 lit. (h) and (e) first sentence shall apply accordingly in the event of an infringement of an IPR.

(5) The provisions of No. 6 shall apply where other defects in title occur.

(6) Any other claims due to defects in title or claims due to defects in title beyond those regulated in this No. 7 by the Purchaser against the Supplier or its agents shall be excluded.



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09 340 307	47	09 501 114	78	09 914 111	47	09 916 116	50	09 916 345	53	09 916 593	57
09 340 311	82	09 501 116	79	09 914 112	47	09 916 117	50	09 916 347	53	09 916 594	57
09 340 312	82	09 501 122	74	09 914 113	47	09 916 118	50	09 916 349	53	09 916 595	57
09 340 313	82	09 501 125	90	09 914 114	47	09 916 119	50	09 916 350	53	09 916 596	57
09 340 314	82	09 501 126	90	09 914 115	47	09 916 139	50	09 916 351	53	09 916 597	57
09 340 315	82	09 501 127	90	09 914 116	47	09 916 141	50	09 916 352	53	09 916 598	57
09 340 350	37	09 501 128	90	09							

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