

# DATA SHEET

DFS 2 025-2/0,01-A Hz60
pulsating AC/DC-sensitive type A, for frequencies ≠ 50 Hz
Article number 09122623





### **Function**

Residual current circuit-breakers (RCCBs) are components for implementing protective measure "Automatic switch-off of power supply" as per VDE 0100 part 410 or corresponding international installation regulations. Series DFS 2 devices are compact two-pole residual current circuit-breakers for single-phase networks. In the standard design, they only take up two module width units of space. In spite of the compact dimensions, a number of different tripping currents and characteristics are available at rated currents, depending on the design, up to 125 A. They also have large two-tier terminals for large conductor cross-sections, a practical multifunctional switch toggle and can be provided with pre-prepared labels using free-of-charge software. Switches with residual current characteristic A allow the mains voltage independent detection of sinusoidal AC currents and pulsating DC residual currents. Any possible additional functions may be voltage-dependent. Device in the Hz design are intended for rated frequencies for the mains voltage which are not equal to 50 Hz. Common frequencies are 60 or 400 Hz; devices for other frequencies are manufactured upon request. The frequency range for tripping current detection remains unaffected by this. Devices in the standard design are intended for monitoring circuits with a rated voltage of 230 V or 400 V.

#### **Features**

tripping not dependent on mains and auxiliary voltage, sensitive to AC residual currents and pulsating DC residual currents (type A), compact design for all rated currents, high short-circuit resistance, double-sided two-tier terminals for large conductor cross-section and busbar, switch position indicator, viewing window for labels, multifunction switch toggle with three positions: "on", "off" and "tripped", auch in der Ausführung "HD" erhältlich, Neutral conductors with standard design left, for two-terminal-pair devices type A/AC/F up to 125 A and type B/B+ up to 80 A; N-right available at no extra charge.

#### Mounting

quick fastening to mounting rail, any installation position, supply from any direction

## **Applications**

Power supplies to TT, TN-S and TN-C-S networks with mains frequencies > 50 Hz, Not permitted for use in TN-C networks and for protecting systems in which electronic equipment may cause smooth DC residual currents or residual currents with frequencies not equal to 50 Hz. Comprehensive protection is not provided with an RCCB Type A. For these applications we recommend our residual current circuit-breakers Type F or our AC/DC sensitive residual current circuit-breakers Type B/B+.

#### Accessories

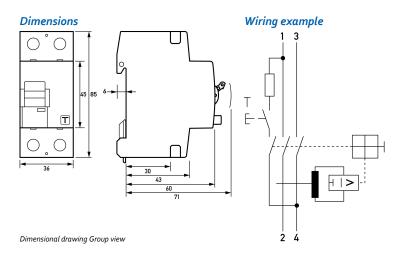
Clamp covers KA, Information stickers HAS, Auxiliary Switches DHi, Restart locking facilities WES, Software BS DLS/DFS

## Technical Data

Technical Data	DFS 2 025-2/0,01-A Hz60
Series	DFS 2 A Hz
Number of poles	2
Residual current type	A
Rated current (AC)	25 A
Rated residual current I∆n	0.01 A
Short-time delayed	false
Selective	false
min. Operating voltage range of test circuit	100 V

max. Operating voltage range of test circuit  Maximum disconnection times  1 1 l l l l l l l l l l l l l l l l l	Technical Data	DFS 2 025-2/0,01-A Hz60
Maximum disconnection times	max. Operating voltage range of	250 V
Load sircuit  min. Output Os Contact opening Amm Rated voltage (AC) Rated short-circuit current 10 kA Surge current strength 0.25 kA Rated short-circuit current 10 kA Surge current strength 0.25 kA Rated short-circuit outland and switching capacity Rated insplays withstand voltage Rated insplays and voltage Rated insplays		
Specification         Load switch contact           min. Output O1 Contract opening         4 mm           Rated voltage (AC)         230 V           Rated sold voltage (AC)         25 A           Rated short-circuit current         10 kA           Surge current strength         0.25 kA           max. Output O1 total rated switching capacity         400 V           Rated insulation voltage         4,60 V           Rated insulation voltage         4,60 V           Rated insulation voltage         4,60 V           Rated frequency         60 Hz           Current heat loss per current path         3 W           path         4 W           Reted frequency         6 pt 2           Current heat loss per current path         3 W           path         90 Crew-type terminal top and bottom (Load circuit)           Protection against direct contact         DGUV y3, VDE office-5x4, finger-safe and safe for back-of-hand           Connection Call Maximum pumber of conductors per terminal top and bottom (Load circuit)         10 Connection Call Maximum pumbers of conductors per terminal top and bottom (Load circuit)           Cross section solid         1-wire 1,5 mm² 50 mm², 2-wire 1.5 mm² 16 mm²           Cross section solid         1-wire 1,5 mm² 50 mm², 2-wire 1.5 mm² 16 mm²           Cross section	Maximum disconnection times	
min. Output O1 Contact opening Rared voltage (AC) Rared storter (AC) Rated short-circuit current  10 kA  Surge current strength  max. Output O1 total rated switching capacity Rated insulation voltage Rated frequency Go Hz  Current heat loss per current gath path how thermal Backup-fuse OCPD Rated provided insulation ins		Load circuit
Rated voltage (AC) Rated current (AC) Rated current (AC) Rated short-circuit current 10 kA Surge current strength 0.25 kA max. Output O1 total rated switching capacity Rated insulation voltage and voltage insulation v	Specification	Load switch contact
Rated current (AC) Rated short-circuit current  10 kA Surge current strength  20 kA max. Output Oa total rated switching capacity Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated fingulse withstand voltage Rated fingulse Rate Rate Rate Rate Rate Rate Rate Rat		4 mm
Rated short-circuit current Surge current strength Row, Output Or total rated switching capacity Rated insulation voltage insulation voltage Rated insulation voltage insulation voltage insulation voltage Rated insulation voltage insulati		230 V
Surge current strength  max. Output Oa total rated switching capacity  Rated insulation voltage  Rated insulation voltage  Rated insulation voltage  A kV  Rated insulation voltage  A kV  Rated frequency  6o Hz  Current heat loss per current path thermal Backup-fuse OCPD  3 W  path  thermal Backup-fuse OCPD  3 A  Back-up fuse type  GG  Screw-type terminal top and bottom (Load circuit)  Protection against direct contact  DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand  Connection C1 Maximum  number of conductors per terminal  Cross section solid  1-wire: 1,5 mm² 50 mm²; 2-wire: 1,5 mm² 16 mm²  Cross section solid  1-wire: 1,5 mm² 50 mm²; 2-wire: 1,5 mm² 16 mm²  Tightening torque  2.5 Nm 3 Nm  General data description  Operating position  Any  max. Operating platitude above  MSL  Muchanical endurance  Electrical endurance  Electrical endurance  Electrical endurance  Electrical endurance  Distributor housing  Mounting type  Mounting type  Mounting type  Housing material  Thermoplastic resin  Height  Bg mm  Depth  Height  Bg mm  Installation depth  For the conductor of the conductor of true  Width  Bg mm  Installation depth  For the conductor of the conductor of true  A port of the conductor of the conductor of true  Width  Bg mm  Installation depth  For the conductor of the conductor of true  Width  Bg mm  Installation depth  For the conductor of the conductor of true  Width  Bg mm  Installation depth  For the conductor of the conductor of true  Width  Bg mm  Installation depth		
max. Output Ot total rated switching capacity Rated insulation voltage 4,00 V  Rated insulation voltage 4,00 V  Rated frequency 60 Hz  Current heat loss per current path 9  Short-circuit backup-fuse CPD 2,5 A  Short-circuit backup-fuse CPD 6,3 A  Back-up fuse type 9,0 G  Back-up fuse type 9,0 G  Screw-type terminal top and bottom (Load circuit)  Protection against direct contact DGUV 13, VDE 0660-514, finger-safe and safe for back-of-hand  Connectin C1 Maximum number of conductors per terminal or conductors per terminal or conductors per terminal or conductors per terminal or safe type 1-wire: 1,5 mm² 50 mm², 2-wire: 1,5 mm² 16 mm²  Cross section solid 1-wire: 1,5 mm² 50 mm², 2-wire: 1,5 mm² 16 mm²  Cross section stranded 1-wire: 1,5 mm² 50 mm², 2-wire: 1,5 mm² 16 mm²  Cross section stranded 1-wire: 1,5 mm² 50 mm², 2-wire: 1,5 mm² 16 mm²  Tightening torque 2,5 Nm 3 Nm  General data description General data Operating position any  max. Operating altitude above MSL  Mechanical endurance min. 2000 cycles  Electrical endurance morphaperature -25 °C 40 °C  Climate resistance according to IEC 60608-2-30. humid healty cyclic (25 °C, 93 %) 97 % RH)  Shock resistance according to IEC 60608-2-30. humid healty cyclic (25 °C, 93 %) 97 % RH)  Housing type Mounting tyle  Mounting type Mounting rial  Housing material Thermoplastic resin  Protection class in min. 2000 min. 36 mm  Height 9,8 mm  Depth 9,75 mm  Installation depth 6,9 mm		10 kA
Rated insulation voltage Rated irrequency Go Hz Current heat loss per current path path thermal Backup-fuse OCPD 3 A Back-up fuse type Back-up fuse type GORD Screw-type terminal top and bottom (Load circuit) Protection against direct contact Connection Ca Maximum number of conductors per terminal Cross section solid Connecting capacity flexible Cross section solid Connecting capacity flexible Tightening torque Consultation as a section of the description Backup fuse Solid Tightening torque Connection Canda factor in the section of the secti		0.25 kA
Rated insulation voltage Rated impulse withstand voltage Rated frequency 6 o Hz Current heat loss per current path bath bath bath bath bath bath bath b		500 A
Rated impulse withstand voltage Rated frequency Go Hz Current heat loss per current path  thermal Backup-fuse OCPD 3 A Back-up fuse type Go Screw-type terminal top and bottom (Load circuit)  Frotection against direct contact DGUV V3, VDE o660-514, finger-safe and safe for back-of-hand  Connection C1 Maximum number of conductors per terminal  Cross section solid 1-wire: 1,5 mm² 50 mm²; 2-wire: 1,5 mm² 16 mm²  Connection C2 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Connection c1 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Connection c1 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Connection c2 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Connection c3 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Connection c3 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Connection c3 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Connection c3 Maximum 12 (conductors of same type and cross-section)  Rated and safe for back-of-hand  Rated and		
Rated frequency Current heat loss per current path thermal Backup-fuse OCPD short-circuit backup-fuse SCPD Back-up fuse type GG Screw-type terminal top and bottom (Load circuit) Protection against direct contact Connection C1 Maximum number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors per terminal maximum 2 (conductors of same type and cross-section) number of conductors of same type and cross-section) number of conductors per terminal 2 (conductors of same type and cross-section) number of conductors of same type and cross-section number 2 (conductors of same type and cross-section) number 2 (conductors of same type and cross-section) number 2 (conductors of same type and cross-section) number 2 (conductors per and cross-section) number 2 (conduc		·
Current heat loss per current path thermal Backup-fuse OCPD 35 A  short-circuit backup-fuse SCPD 63 A  Back-up fuse type 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
path thermal Backup-fuse OCPD		
short-circuit backup-fuse SCPD Back-up fuse type  Screw-type terminal top and bottom (Load circuit)  Protection against direct contact DGUV V3, VDE 6660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm², 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire	The state of the s	3 W
Back-up fuse type  Screw-type terminal top and bottom (Load circuit)  Protection against direct contact  DGUV V3, VDE o660-514, finger-safe and safe for back-of-hand  Connection C1 Maximum number of conductors per terminal  Cross section solid  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Consecting capacity flexible  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Cross section stranded  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  General data description  General data description  General data description  General data description  Mechanical endurance  Inin. 5000 cycles  Electrical endurance  Surrounding atmosphere  Surrounding atmosphere  Storage temperature  -25 °C 40 °C  Climate resistance  according to IEC 60068-2-30; humid heat / cyclic (25 °C / 55 °C; 93 %/ 97 % RH)  Shock resistance  20 g / 20 ms Duration  Fatigue limit  > 5 g (f s & N H2, duration > 30 min.)  Housing type  Mounting type  Distributor housing  Mounting type  Protection class  P	thermal Backup-fuse OCPD	25 A
Screw-type terminal top and bottom (Load circuit)  Protection against direct contact  DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand  2 (conductors of same type and cross-section) number of conductors per terminal  Cross section solid  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Connecting capacity flexible  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Cross section stranded  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Tightening torque  2.5 Nm 3 Nm  General data  Operating position  any  max. Operating altitude above  MSL  Mechanical endurance  min. 5000 cycles  Electrical endurance  min. 5000 cycles  Electrical endurance  min. 5000 cycles  Storage temperature  -35 °C 75 °C  Ambient temperature  -25 °C 40 °C  Climate resistance  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C, 93 % / 97 % RH)  Shock resistance  Fatigue limit  > 5 g (f ≤ 80 Hz, duration > 30 min.)  Housing type  Mounting type  Mounting type  Mounting type  Mounting material  Protection class  IP20 (installed: IP40)  Sealable  true  Width  85 mm  Depth  Popth  Popth  Popth  Poptm  Installation depth	short-circuit backup-fuse SCPD	6 <sub>3</sub> A
Protection against direct contact         DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand           Connection C1 Maximum number of conductors per terminal         2 (conductors of same type and cross-section)           Cross section solid         1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²           Connecting capacity flexible         1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²           Cross section stranded         1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²           Tightening torque         2.5 Nm 3 Nm           General data description         General data           Operating position         any           max. Operating altitude above MSL         2000 m           MSL         min. 5000 cycles           Electrical endurance         min. 5000 cycles           Surrounding atmosphere         normal environmental conditions           Storage temperature         -35 °C 75 °C           Ambient temperature         -25 °C 75 °C           Climate resistance         according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)           Shock resistance         20 g / 20 ms Duration           Fatigue limit         > 5 g (f ≤ 80 Hz, duration > 30 min.)           Housing type         Mounting rail           Housing material         Thermoplastic resin           Protection c	Back-up fuse type	gG
Connection C1 Maximum number of conductors per terminal         2 (conductors of same type and cross-section)           Cross section solid         1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²           Connecting capacity flexible         1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²           Cross section stranded         1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²           Tightening torque         2.5 Mm 3 Mm           General data description         General data           Operating position         any           max. Operating altitude above MSL         2000 m           MSL         min. 2000 cycles           Electrical endurance         min. 2000 cycles           Surrounding atmosphere         normal environmental conditions           Storage temperature         -35 °C 75 °C           Ambient temperature         -25 °C 40 °C           Climate resistance         according to IEC 60068-2-30. humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)           Shock resistance         20 g / 20 ms Duration           Fatigue limit         > 5 g (f ≤ 80 Hz, duration > 30 min.)           Housing type         Distributor housing           Mounting rail         Thermoplastic resin           Protection class         IP20 (installed: IP40)           sealable         true		Screw-type terminal top and bottom (Load circuit)
number of conductors per terminal  Cross section solid  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Connecting capacity flexible  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Cross section stranded  1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²  Tightening torque  2.5 Nm 3 Nm  General data  Operating position  any  max. Operating altitude above MSL  Mechanical endurance  Ilectrical endurance  Ilectrical endurance  Inormal environmental conditions  Storage temperature  Ambient temperature  1-25 °C 40 °C  Climate resistance  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C, 93 % / 97 % RH)  Shock resistance  2 og / 20 ms Duration  Fatigue limit  > 5 g (f ≤ 80 Hz, duration > 30 min.)  Housing type  Mounting ty	Protection against direct contact	DGUV V3, VDE o66o-514, finger-safe and safe for back-of-hand
Connecting capacity flexible         1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm²           Cross section stranded         1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm²           Tightening torque         2.5 Nm 3 Nm           General data         General data           Operating position         any           max. Operating altitude above         2000 m           MSL         min. 5000 cycles           Electrical endurance         min. 5000 cycles           Electrical endurance         min. 2000 cycles           Surrounding atmosphere         normal environmental conditions           Storage temperature         -25 °C 75 °C           Ambient temperature         -25 °C 40 °C           Climate resistance         according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)           Shock resistance         20 g / 20 ms Duration           Fatigue limit         > 5 g (f ≤ 80 Hz, duration > 30 min.)           Housing type         Mounting rail           Housing material         Thermoplastic resin           Protection class         IP20 (installed: IP40)           sealable         true           Width         36 mm           Height         85 mm           Depth         75 mm           Installat	number of conductors per	2 (conductors of same type and cross-section)
Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data Operating position any max. Operating altitude above MSL Mechanical endurance Electrical endurance Electrical endurance Surrounding atmosphere Surrounding atmosphere Inormal environmental conditions Storage temperature -25 °C 40 °C Climate resistance according to IEC 60068-2-30: humid heat / cyclic (25 °C/ 55 °C; 93 % / 97 % RH) Shock resistance Fatigue limit > 5 g (f ≤ 80 Hz, duration > 30 min.) Housing type Mounting type Mounting rail Housing material Thermoplastic resin Protection class sealable true Width 36 mm Height Both material Fatsulation depth Installation depth  69 mm	Cross section solid	1-wire: 1.5 mm <sup>2</sup> 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> 16 mm <sup>2</sup>
Tightening torque  2.5 Nm 3 Nm  General data description  General data  Operating position  max. Operating altitude above MSL  Mechanical endurance  Electrical endurance  Surrounding atmosphere  Storage temperature  Ambient temperature  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)  Shock resistance  Fatigue limit  Housing type  Mounting ty	Connecting capacity flexible	1-wire: 1.5 mm <sup>2</sup> 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> 16 mm <sup>2</sup>
General data description  General data Operating position  max. Operating altitude above MSL  Mechanical endurance  Electrical endurance  Surrounding atmosphere  Storage temperature  Ambient temperature  Climate resistance  Fatigue limit  Housing type  Mounting	Cross section stranded	1-wire: 1.5 mm <sup>2</sup> 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> 16 mm <sup>2</sup>
Operating position     any       max. Operating altitude above MSL     2000 m       Mechanical endurance     min. 5000 cycles       Electrical endurance     min. 2000 cycles       Surrounding atmosphere     normal environmental conditions       Storage temperature     -35 °C 75 °C       Ambient temperature     -25 °C 40 °C       Climate resistance     according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)       Shock resistance     20 g / 20 ms Duration       Fatigue limit     > 5 g (f ≤ 80 Hz, duration > 30 min.)       Housing type     Mounting rail       Housing material     Thermoplastic resin       Protection class     IP20 (installed: IP40)       sealable     true       Width     36 mm       Height     85 mm       Depth     75 mm       Installation depth     69 mm	Tightening torque	2.5 Nm 3 Nm
max. Operating altitude above MSL  Mechanical endurance  Electrical endurance  Electrical endurance  Surrounding atmosphere  Storage temperature  Ambient temperature  Climate resistance  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)  Shock resistance  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)  Shock resistance  20 g / 20 ms Duration  Fatigue limit  5 5 g (f ≤ 80 Hz, duration > 30 min.)  Housing type  Mounting rail  Heusing material  Thermoplastic resin  Protection class  IP20 (installed: IP40)  sealable  true  Width  36 mm  Height  85 mm  Depth  75 mm  Installation depth  69 mm	General data description	General data
MSL   Mechanical endurance min. 5000 cycles   Electrical endurance min. 2000 cycles   Surrounding atmosphere normal environmental conditions   Storage temperature -35 °C 75 °C   Ambient temperature -25 °C 40 °C   Climate resistance according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)   Shock resistance 20 g / 20 ms Duration   Fatigue limit > 5 g (f ≤ 80 Hz, duration > 30 min.)   Housing type Mounting rail   Housing material Thermoplastic resin   Protection class IP20 (installed: IP40)   sealable true   Width 36 mm   Height 85 mm   Depth 75 mm   Installation depth 69 mm	Operating position	any
Electrical endurance  Surrounding atmosphere  Surrounding atmosphere  Storage temperature  -25 °C 75 °C  Ambient temperature  -25 °C 40 °C  Climate resistance  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)  Shock resistance  20 g / 20 ms Duration  Fatigue limit  >5 g (f ≤ 80 Hz, duration > 30 min.)  Housing type  Distributor housing  Mounting type  Mounting type  Mounting type  Mounting rail  Housing material  Thermoplastic resin  Protection class  IP20 (installed: IP40)  sealable  true  Width  36 mm  Height  85 mm  Depth  75 mm  Installation depth		2000 M
Surrounding atmosphere       normal environmental conditions         Storage temperature       -35 °C 75 °C         Ambient temperature       -25 °C 40 °C         Climate resistance       according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)         Shock resistance       20 g / 20 ms Duration         Fatigue limit       > 5 g (f ≤ 80 Hz, duration > 30 min.)         Housing type       Mounting type         Mounting rail       Thermoplastic resin         Protection class       IP20 (installed: IP40)         sealable       true         Width       36 mm         Height       85 mm         Depth       75 mm         Installation depth       69 mm	Mechanical endurance	min. 5000 cycles
Storage temperature  -35 °C 75 °C  Ambient temperature  -25 °C 40 °C  Climate resistance  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)  Shock resistance  20 g / 20 ms Duration  Fatigue limit  >5 g (f ≤ 80 Hz, duration > 30 min.)  Housing type  Distributor housing  Mounting type  Mounting rail  Housing material  Thermoplastic resin  Protection class  IP20 (installed: IP40)  sealable  true  Width  36 mm  Height  85 mm  Depth  75 mm  Installation depth	Electrical endurance	min. 2000 cycles
Ambient temperature  -25 °C 40 °C  Climate resistance  according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)  Shock resistance  20 g / 20 ms Duration  Fatigue limit  >5 g (f ≤ 80 Hz, duration > 30 min.)  Housing type  Distributor housing  Mounting rail  Housing material  Thermoplastic resin  Protection class  IP20 (installed: IP40)  sealable  true  Width  36 mm  Height  85 mm  Depth  Installation depth  69 mm	Surrounding atmosphere	normal environmental conditions
Climate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance $20 \text{ g / 20 ms Duration}$ Fatigue limit $> 5 \text{ g (f} \le 80 \text{ Hz, duration } > 30 \text{ min.})$ Housing typeDistributor housingMounting railMounting railHousing materialThermoplastic resinProtection classIP20 (installed: IP40)sealabletrueWidth $36 \text{ mm}$ Height $85 \text{ mm}$ Depth $75 \text{ mm}$ Installation depth $69 \text{ mm}$	Storage temperature	-35 °C 75 °C
Shock resistance $20 \text{ g/ 20 ms Duration}$ Fatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typeDistributor housingMounting typeMounting railHousing materialThermoplastic resinProtection classIP20 (installed: IP40)sealabletrueWidth36 mmHeight85 mmDepth75 mmInstallation depth69 mm	Ambient temperature	
Fatigue limit > 5 g (f ≤ 80 Hz, duration > 30 min.)  Housing type Distributor housing  Mounting type Mounting rail  Housing material Thermoplastic resin  Protection class IP20 (installed: IP40)  sealable true  Width 36 mm  Height 85 mm  Depth 75 mm  Installation depth 69 mm	Climate resistance	according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)
Housing type Mounting type Mounting rail Housing material Thermoplastic resin Protection class IP20 (installed: IP40) sealable true Width 36 mm Height B5 mm Depth T5 mm Installation depth Distributor housing Mounting rail Thermoplastic resin IP20 (installed: IP40)  87 mm Fig. 10 mm Fig	Shock resistance	20 g / 20 ms Duration
Mounting type  Housing material  Protection class  IP20 (installed: IP40)  sealable  true  Width  36 mm  Height  85 mm  Depth  75 mm  Installation depth  Mounting rail  Mounting rail  Another sesin  IP20 (installed: IP40)  sealable  true  Mounting rail  Another sesin  IP20 (installed: IP40)  59 mm	Fatigue limit	> 5 g (f ≤ 8o Hz, duration > 30 min.)
Housing material  Protection class  IP20 (installed: IP40)  sealable  true  Width  36 mm  Height  85 mm  Depth  75 mm  Installation depth  69 mm	Housing type	Distributor housing
Protection class IP20 (installed: IP40) sealable true Width 36 mm Height 85 mm Depth 75 mm Installation depth 69 mm	Mounting type	Mounting rail
sealabletrueWidth36 mmHeight85 mmDepth75 mmInstallation depth69 mm	Housing material	Thermoplastic resin
Width         36 mm           Height         85 mm           Depth         75 mm           Installation depth         69 mm	Protection class	IP20 (installed: IP40)
Height 85 mm  Depth 75 mm  Installation depth 69 mm	sealable	true
Depth 75 mm Installation depth 69 mm	Width	36 mm
Depth 75 mm Installation depth 69 mm	Height	85 mm
	Depth	75 mm
Width (modules) 2	Installation depth	69 mm
	Width (modules)	2

Technical Data	DFS 2 025-2/0,01-A Hz60
Design requirements/Standards	VDE 0664-10, EN 61008-1
Degree of pollution according to EN 60664	2



Wiring diagram