



symbolic image

**DATA SHEET**  
**miniature circuit-breakers**  
**DLS 6h C32-4**  
**for commercial sector applications, C-characteristic, 6 kA**  
**Article number 09914356**



**Function**

The task of miniature circuit breakers is to automatically disconnect circuits in order to protect lines and connected devices. After disconnection, they can be manually reactivated without the fuse sets having to be replaced, for example. Each of our miniature circuit breakers is equipped with a trip-free mechanism, which guarantees safe deactivation even if, for example, a switching knob is mechanically blocked. A key requirement in DIN VDE 0100 is to protect cables, lines and installation devices from overload and short-circuit. This can be achieved using miniature circuit-breaker (MCBs). In industrial installations and also in commercial buildings, they often take on additional protection of equipment and devices where there are usually stricter requirements than when used in residential buildings. Miniature circuit-breakers utilise both the magnetic and heat effect of the electrical current. If the current jumps to a value that is too high when a short-circuit occurs, the MCB interrupts the circuit using the magnetic field of an energised coil. The heat that develops when there is continuous overload causes the bimetal to warp, which trips the breaker. The DLS 6 family of miniature circuit-breakers, characterised by a large selection of different types for broad application fields, are available for residential and purpose-built facilities, as well as for industrial applications. The compact design provides lots of space for wiring and large clamping area, as well as the option of using conventional wiring rails for easy processing. The variants also have a large, folding label window and a clearly labelled display for the operating status. A number of additional devices such as under-voltage and operating current trip, and auxiliary/fault sensor switches, render possible general-purpose use of the miniature circuit-breakers. The DLS 6h variant for skilled trade features a rated switching capacity of 6 kA designed for distributor and final circuits, and a large selection of rated currents in characteristics B and C. Switches with tripping characteristic C are optimised for power circuits with high inrush or peak currents.

**Features**

rated switching capacity 6 kA, screw terminals with strain-relief clamps with wide terminal cross-section range for rail and line wiring on both connection sides , special quick fastening for removal of multiple miniature circuit-breakers from the bottom or top interconnection, large, folding label window for a secure hold and protection of the label, use of conventional wiring rails, ON/OFF switch position indicator on the switch toggle, accessories retro-fittable on the right, labelling software free of charge

**Mounting**

quick fastening to mounting rail, any installation position

**Applications**

suitable for use in power supplies for residential and purpose-built buildings or buildings for commercial use

**Accessories**

terminal caps KA, software DBS, restart locks DEASS, auxiliary switches DHi, trip-indicating auxiliary contact DHi-S, operating current trip DASA, documentation

**Technical Data**

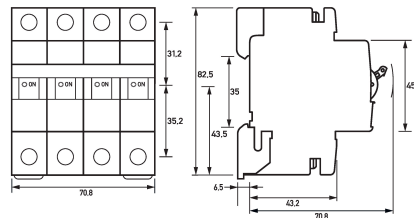
Technical Data	DLS 6h C32-4
Series	DLS 6h
Number of poles	4
Tripping characteristic	C
Supply side	left or right
Adjustment range of overload tripping	1.13 ... 1.45
Adjustment range of short-circuit tripping	5 ... 10

Technical Data	DLS 6h C32-4
Tripping factor over frequency band	1.5 at DC; 1.1 at 100 Hz; 1.2 at 200 Hz; 1.3 at 300 Hz; 1.4 at 400 Hz
Test current factor tripping electromagnetic	10
Test current multiplier, trip, thermal	1.45
Test current factor retaining electromagnetic	5
Test current factor retaining thermal	1.13
Reference temperature thermal release	30 °C
Isolation class	C at 250 V AC; B at 400 V AC
	<b>load circuit</b>
Specification	load disconnect contact
Rated voltage (AC)	230 V, 400 V
Rated current (AC)	32 A
Rated short-circuit current	6 kA
Rated insulation voltage	2 kV
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz (16.67 Hz ... 60 Hz)
Short-circuit backup-fuse SCPD	125 A
Back-up fuse type	gL, gG
Back-up fuse (textual)	Safety fuse as per DIN EN 6036
Overvoltage class	III
	<b>screw terminals with strain-relief clamp top (load circuit)</b>
Protection against direct contact	DGUV V2, VDE 0660-514, finger and back-of-hand proof
Connection C1 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
Cross section solid	1-wire: 0.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Connecting capacity flexible	1-wire: 1 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section flexible with ferrule	0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section stranded	1-wire: 1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Tightening torque	max. 2.5 Nm
Thickness busbar	max. 3 mm
Thickness busbar cable lug (combined conductors, max)	2 mm
Cross section (busbar / busbar fork combined, max)	25 mm <sup>2</sup>
	<b>screw terminals with strain-relief clamp bottom (load circuit)</b>
Protection against direct contact	DGUV V2, VDE 0660-514, finger and back-of-hand proof
Connection C2 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
Cross section solid	1-wire: 0.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connecting capacity flexible	1-wire: 1 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Cross section flexible with ferrule	0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section stranded	1-wire: 1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Tightening torque	max. 2.5 Nm
Thickness busbar cable lug (combined conductors, max)	2 mm

Subject to technical changes

Technical Data		DLS 6h C32-4
Cross section (busbar / busbar fork combined, max)		35 mm²
Thickness busbar		max. 3 mm
General data		
Operating position		optional
Mechanical endurance		min. 20000 switching cycles
Storage temperature		-40 °C ... 70 °C
Ambient temperature		-25 °C ... 55 °C
Climate resistance		damp/heat: constant as per DIN EN 60068-2-78, cyclical as per DIN EN 60068-2-30
Shock resistance		25 g / 11 ms Duration
Vibration resistance		> 15 g acc. to DIN EN 60068-2-59 during a load with I <sub>1</sub>
Housing type		distribution board housing
Installation type		Mounting rail (35 mm)
Housing material		thermoplastic
Protection class		IP20
sealable		true
Width		70.8 mm
Height		82.5 mm
Depth		74 mm
Installation depth		68 mm
Module widths		4
Weight		0.481 kg
Design requirements/Standards		EN 60898-1
Power limitation category		3
Degree of pollution		2

Dimensions



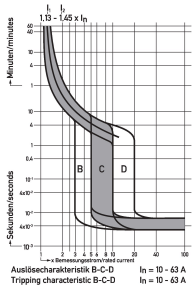
Dimensional drawing Group view

Wiring example



Wiring diagram

Diagrams



Characteristic Char. B, C, D