



symbolic image

**DATA SHEET**  
**miniature circuit-breakers**  
**MCB 4K32**  
**Characteristic K, 10 kA**  
**Article number 09915716**



**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. MCBK series circuit breakers have been specially developed for the Norwegian market. They are used as back-up fuses for distributors. Switches with characteristic K are optimised for fuse-protecting power circuits (motor and transformer load circuits) with high switch-on currents.

**Features**

rated switching capacity 10 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 industrial facilities and purpose-built buildings or buildings for commercial use

**Technical Data**

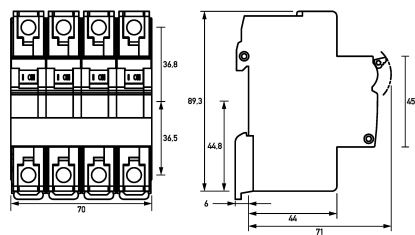
Technical Data		MCB 4K32
Series		MCBK
Number of poles		4
Tripping characteristic		K
Supply side		left or right
Adjustment range of overload tripping		1.1 ... 1.35
Adjustment range of short-circuit tripping		8 ... 12
Tripping factor over frequency band		1.5 at DC; 1.1 at 100 Hz; 1.2 at 200 Hz; 1.3 at 300 Hz;
Test current factor tripping electromagnetic		20
Test current multiplier, trip, thermal		1.35
Test current factor retaining electromagnetic		15
Test current factor retaining thermal		1.1
Reference temperature thermal release		30 °C

Technical Data	MCB 4K32
Isolation class	C at 250 V AC; B at 400 V AC
Rated voltage (AC)	240 V, 415 V
Rated current (AC)	32 A
Rated short-circuit current	10 kA
Rated insulation voltage	2 kV
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz (16.67 Hz ... 60 Hz)
Current heat loss per current path	2.9 W
short-circuit backup-fuse SCPD	125 A
Back-up fuse type	gL, gG
Back-up fuse (textual)	Safety fuse as per DIN EN 6036
Overtoltage 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: 1 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	1 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: 1 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	1 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
cross section (busbar / busbar fork combined, max)	35 mm <sup>2</sup>
thickness busbar	max. 3 mm
	<b>General data</b>
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>Δ</sub>
Housing type	distribution board housing

Subject to technical changes

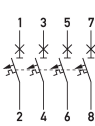
Technical Data		MCB 4K32
Installation type	Mounting rail (35 mm)	
Housing material	thermoplastic	
Protection class	IP20	
sealable	true	
Width	70 mm	
Height	89.3 mm	
Depth	74.4 mm	
Design requirements/Standards	IEC 60947-2, DIN EN 60947-2, VDE 0660-101, CSA-22.2 no 14	
Power limitation category	3	
Degree of pollution	2	

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram