


**VAL-CP-MCB-3C-350/40/FM**

Order No.: 2882776

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Combination of type 2 surge protection and arrester backup fuse, with monitoring of arrester and arrester backup fuse, in combination with a status indicator and remote indication contact. Design: 4-conductor system (L1, L2, L3, PEN), mounting on NS 35 DIN rail

**Commercial data**

GTIN (EAN)	 4 046356 175838
sales group	J026
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 43 (TT-2009)

**Product notes**

WEEE/RoHS-compliant since:  
12/05/2006



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**Technical data****Standards**

Housing material	PBT / PA
Inflammability class acc. to UL 94	V0
Color	light gray

Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	IEC 61643-1
Degree of protection	IP20
Mounting type	DIN rail: 35 mm
Design	DIN rail module, two-section, divisible
Number of positions	3
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Message: Surge protection fault	Optical, remote indicator contact
Direction of action	3L-N/PE
Width	114.00 mm
Height	76.00 mm
Length	101.00 mm

**Protective circuit**

IEC category	II
EN type	T2
Nominal voltage $U_N$	240 V AC (230/400 V AC ... 240/415 V AC)
	415 V AC (L-L)
Arrester rated voltage $U_C$ (L-PEN)	350 V AC
$U_T$ (TOV-proof)	415 V AC (5 s)
Nominal frequency $f_N$	50 Hz
	60 Hz
Nominal load current $I_L$	40 A
Ground conductor current $I_{PE}$	$\leq 250 \mu A$
Standby power consumption $P_C$	$\leq 3.5 \text{ mW}$
Max. discharge surge current $I_{max}$ (8/20) $\mu s$ maximum (L-PEN)	90 kA (all channels)
	30 kA (1 channel)
Nominal discharge surge current $I_n$ (8/20) $\mu s$ (L-PEN)	20 kA (1 channel)
	60 kA (all channels)
Protection level $U_P$ (L-PEN)	$\leq 2.5 \text{ kV}$

Residual voltage (L-PEN)	≤ 2.5 kV (at I <sub>n</sub> )
	≤ 1.5 kV (at 10 kA)
	≤ 1.3 kV (at 5 kA)
	≤ 1 kV (at 3 kA)
Response time (L-N)	≤ 25 ns
Max. required backup fuse with branch wiring	(Not required)
Max. required backup fuse with V-type through wiring	(Not required)
Short-circuit resistance I <sub>p</sub> with max. backup fuse (effective)	25 kA

**Connection, protective circuit**

Connection name	PE conductor connection
Type of connection	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section stranded min.	2.5 mm <sup>2</sup>
Conductor cross section stranded max.	16 mm <sup>2</sup>
Conductor cross section solid min.	2.5 mm <sup>2</sup>
Conductor cross section solid max.	25 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	12
Conductor cross section AWG/kcmil max	4
Connection name	Connection protective circuit
Type of connection	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section stranded min.	1 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Conductor cross section solid min.	1 mm <sup>2</sup>

Conductor cross section solid max.	35 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	18
Conductor cross section AWG/kcmil max	2

#### Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT, 1-pos.
Type of connection	Pluggable screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
Maximum operating voltage U <sub>max</sub> AC	250 V AC
Maximum operating voltage U <sub>max</sub> DC	250 V DC
Max. operating current I <sub>max</sub>	2 A AC
	50 mA DC

#### Standards

Standards/regulations	IEC 61643-1 2005
	EN 61643-11 2002
	IEC 60364-4-443
	IEC 60364-5-534

#### Certificates / Approvals

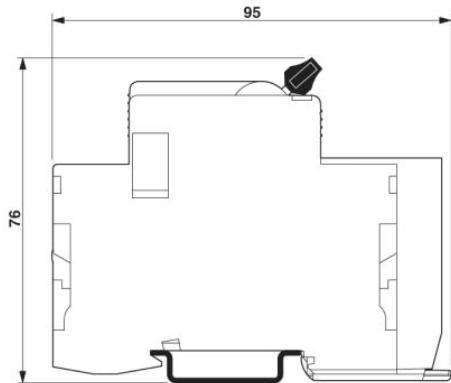


Certification

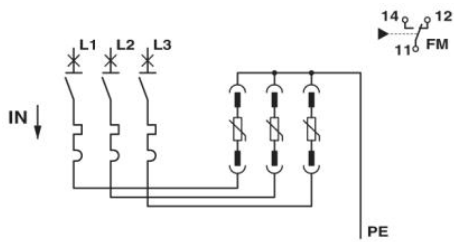
CB, CCA, GOST, KEMA, OEVE, VDE-PZI

## Diagrams/Drawings

### Dimensioned drawing



### Circuit diagram



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