

# PROTEC CMG(R) 40 (2+0)

## Class II Multi-pole Surge Protective Device

$I_{max} = 20kA$  per pole (8/20)

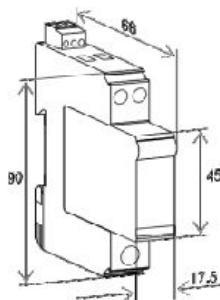


- ◆ Category IEC / EN / VDE: Class II / Type 2 / C
- ◆ Location of use: Branch sub-distribution boards
- ◆ Connections: TN-S, TT, IT
- ◆ Protection modes: L/N - PE, L - N
- ◆ Protective element: MOV and GDT
- ◆ High surge discharge rating:  $I_{max} = 20kA$  per pole
- ◆ Housing: Modular design
- ◆ Complies with: IEC-61643-1

### Technical data

Type	PROTEC CMG(R) 40/xxx (2+0)		
	150	275	
<b>Electrical characteristics</b>			
Max. continuous operating voltage (AC/DC)	$U_c$	150/200V	275/350V
Nominal discharge current (8/20)	$I_n$ (L/N-PE, L-N)	10kA per pole	
Max. discharge current (8/20)	$I_{max}$ (L/N-PE, L-N)	20kA per pole	
Protection level	$U_p$ (L/N-PE)	< 0.7kV	< 1.1kV
	$U_p$ (L-N)	< 1.2kV	< 1.9kV
Residual voltage at 3kA (8/20)	$U_{res}$ (L/N-PE)	< 0.5kV	< 0.8kV
	$U_{res}$ (L-N)	< 0.8kV	< 1.4kV
Follow current	$I_f$	NO	
Response time	$t_A$ (L/N-PE, L-N)	< 100ns / < 25ns	
Thermal protection		YES	
Back-up fuse (if mains > 125A)		125A gL	
Short-circuit withstand current		25kA/50Hz	
<b>Mechanical characteristics</b>			
Temperature range		- 40°C ... + 80°C	
Terminal screw torque	Upper terminals	max. 2Nm	
	Lower terminal	max. 3.5Nm	
Terminal cross section	Upper terminals	6mm <sup>2</sup> (solid)/4mm <sup>2</sup> (stranded)	
	Lower terminal	35mm <sup>2</sup> (solid)/25mm <sup>2</sup> (stranded)	
Mounting EN 60715		35mm top-hat rail	
Degree of protection		IP 20	
Housing material		Thermoplastic; extinguishing degree UL 94 V-0	
Dimensions DIN 43880		1TE	
Weight per unit		130g	146g
<b>Ordering code PROTEC CMG 40/xxx (2+0)</b>			
Remote contacts		YES	
Contact ratings		AC: 250V/0.5A; 125V/3A	
Terminal cross section		max. 1.5mm <sup>2</sup>	
Remote terminal torque		0.25Nm	
Weight per unit		135g	151g
<b>Ordering code PROTEC CMGR 40/xxx (2+0) - with remote contacts</b>			
Packaging dimensions (single unit)		108 x 74 x 24mm	
<b>Ordering code Module PROTEC CMG(R) 40/xxx (2+0)</b>			
Packaging dimensions (12 pcs.)		219 x 62 x 47mm	

### Dimensions



### Connection diagram

