

PROTEC DM(R) 20 (2+0)



- Category IEC / EN / VDE: Class III / Type 3 / D
- Location of use: Sub-distribution boards
- Network systems: TN-S, TT
- Protection modes: L/N - PE
- Protective element: MOV
- Surge discharge rating:  $U_{oc} = 10kV$
- Housing: Modular design
- Complies with: IEC/EN 61643-11



Technical data

Type	PROTEC DM(R) 20/xxx (2+0)					
	150	275	320	385	440	
<b>Electrical characteristics</b>						
Max. continuous operating voltage (AC/DC)	$U_c$	150/200V	275/350V	320/420V	385/500V	440/580V
Open circuit voltage of the combination wave generator	$U_{oc}$	10kV				
Max. discharge current (8/20)	$I_{max}$	10kA per pole				
Protection level	$U_p$ (L/N-PE)	< 0.8kV	< 1.2kV	< 1.2kV	< 1.6kV	< 2.0kV
Follow current	$I_{fi}$	NO				
Response time	$t_A$	< 25ns				
Thermal protection		YES				
Back-up fuse (if mains > 63A)		63A gL				
Short-circuit withstand current	$I_{SCCR}$	10kA/50Hz				
<b>Mechanical characteristics</b>						
Temperature range		- 40°C .... + 80°C				
Terminal screw torque	Upper terminals	max. 2.0Nm				
	Lower terminal	max. 3.0Nm				
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		35mm DIN rail, EN 60715				
Degree of protection		IP 20				
Housing material		Thermoplastic; extinguishing degree UL 94 V-0				
Indication of disconnector operation		red flag				
Remote contacts (RC)		YES				
Contact ratings		AC: 250V/0.5A; 125V/3A				
Terminal cross section		max. 1.5mm <sup>2</sup>				
Remote terminal torque		0.25Nm				

Ordering information

$U_c$	150	275	320	385	440
Ordering code PROTEC DM 20/xxx (2+0)	508.029	508.031	508.033	508.113	508.035
Ordering code PROTEC DMR 20/xxx (2+0) (with remote contacts)	508.037	508.039	508.041	508.115	508.043
Ordering code Module PROTEC DM(R) 20/xxx	508.191	508.192	508.193	508.194	508.195