

Technical Data

		FRCmM
Electrical		
Design according to		IEC/EN 61008, IEC/EN 62423 for Type F only Type G acc. to ÖVE E 8601 IEC 61373, EN 45545-2
Classified according to		
Current test marks as printed onto the device		
Tripping		instantaneous
Type G ,		10 ms delay @ 50 Hz
Type S		40 ms delay @ 50 Hz - with selective disconnecting function
Rated voltage	U_n	240/415 V AC 50 Hz and/or 60 Hz – see individual article for operating frequency
Limits operation voltage test circuit		
2-poles		196 - 264 V~
4-poles 30 mA		196 - 264 V~
4-poles 30 mA -400		353 - 456 V~
4-poles 100, 300, 500 mA		196 - 456 V~
Rated tripping current	$I_{\Delta n}$	30, 100, 300, 500 mA
Sensitivity		> AC, Type A and Type F
Rated insulation voltage	U_i	440 V
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50µs)
Rated short circuit capacity	I_{cn}	10 kA with back-up fuse
Peak withstand current		
Type AC, A		250 A (8/20 µs) surge current-proof
Type G, G/A, G/F		3 kA (8/20 µs) surge current-proof, 10 ms delay
Type S, S/A, S/F		5 kA (8/20 µs) surge current-proof, 40 ms delay
Rated breaking capacity	I_m	
or rated fault breaking capacity	$I_{\Delta m}$	
$I_n = 16-40$ A		500 A
$I_n = 63$ A		630 A
$I_n = 80$ A		800 A
$I_n = 100$ A		1,000 A
Endurance		
electrical components		≥ 4,000 operating cycles
mechanical components		≥ 20,000 operating cycles
Mechanical		
Frame size		45 mm
Device height		80 mm
Device width		35 mm (2MU), 70 mm (4MU)
Mounting		quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715
Degree of protection, built-in		IP40
Degree of protection in moisture-proof enclosure		IP54
Upper and lower terminals		open mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		1.5 - 35 mm ² single wire 2 x 16 mm ² multi wire
Terminal screw		M5 (with slotted screw acc. to EN ISO 4757-Z2, Pozidriv PZ2)
Terminal torque		2 - 2.4 Nm
Busbar thickness		0.8 - 2 mm
Operation temperature		-25°C to +40°C (for higher values see table on ambient temperature)
Storage- and transport temperature		-35°C to +60°C
Resistance to climatic conditions		acc. to IEC/EN 61008
Contact position indicator		red / green
Tripping indicator		white / blue