



**Residual current circuit breaker (RCCB), 80A, 4p, 300mA, type AC**



**Part no.** mRCM-80/4/03  
**Catalog No.** 142803

Similar to illustration

**Delivery program**

Basic function			Residual current circuit-breakers only for export
Number of poles			4 pole
Application			Switchgear for residential and commercial applications
Rated current	$I_n$	A	80
Rated short-circuit strength	$I_{cn}$	kA	10
Rated fault current	$I_{\Delta N}$	A	0.3
Type			Type AC
Tripping		s...	non-delayed
Product range			mRCM
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A

**Technical data**

**Electrical**

Sensitivity			AC current sensitive
Rated short-circuit strength	$I_{cn}$	kA	10

**Design verification as per IEC/EN 61439**

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	80
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0
Equipment heat dissipation, current-dependent	$P_{vid}$	W	11.4
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
			Starting at 40 °C, the max. permissible continuous current decreases by 1.2% for every 1 °C

**Technical data ETIM 7.0**

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)			
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss10.0.1-27-14-22-01 [AAB906014])			
Number of poles			4
Rated voltage		V	400
Rated current		A	80
Rated fault current		mA	300
Rated insulation voltage $U_i$		V	440
Rated impulse withstand voltage $U_{imp}$		kV	4
Mounting method			DIN rail
Leakage current type			AC
Selective protection			No
Short-time delayed tripping			No
Short-circuit breaking capacity ( $I_{cw}$ )		kA	10
Surge current capacity		kA	0.25
Frequency			50 Hz

Additional equipment possible		Yes
With interlocking device		Yes
Degree of protection (IP)		IP20
Width in number of modular spacings		4
Built-in depth	mm	68
Ambient temperature during operating	°C	-25 - 40
Pollution degree		2
Connectable conductor cross section multi-wired	mm <sup>2</sup>	1.5 - 16
Connectable conductor cross section solid-core	mm <sup>2</sup>	1.5 - 35