



Miniature circuit breaker (MCB)

Part no. EMCS380
Catalog No. EMCS380

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	I_n	A	80
Rated switching capacity acc. to IEC/EN 60947-2	I_{cu}	kA	20
Product range			EM

Technical data

Electrical

Rated switching capacity acc. to IEC/EN 60947-2	I_{cu}	kA	20
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Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	80
Equipment heat dissipation, current-dependent	P_{vid}	W	21.4
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	55
linear, per +1 °C, results in a 0.35% reduction of current carrying capacity			

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)			
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ec@ss10.0.1-27-14-19-01 [AAB905014])			
Release characteristic			C
Number of poles (total)			3
Number of protected poles			3
Rated current		A	80
Rated voltage		V	400
Rated insulation voltage U_i		V	440
Rated impulse withstand voltage U_{imp}		kV	4
Rated short-circuit breaking capacity I_{cn} EN 60898 at 230 V		kA	0
Rated short-circuit breaking capacity I_{cn} EN 60898 at 400 V		kA	0
Rated short-circuit breaking capacity I_{cu} IEC 60947-2 at 230 V		kA	20
Rated short-circuit breaking capacity I_{cu} IEC 60947-2 at 400 V		kA	20
Voltage type			AC
Frequency		Hz	50 - 60
Current limiting class			3
Suitable for flush-mounted installation			No
Concurrently switching N-neutral			No
Over voltage category			3
Pollution degree			2
Additional equipment possible			Yes
Width in number of modular spacings			4.5
Built-in depth		mm	75

Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm ²	2.5 - 50
Connectable conductor cross section solid-core	mm ²	2.5 - 50