

Miniature circuit breaker (MCB)



Part no. **EMCS380**
EMCS380

Product name	Eaton Distribution parts
Part no.	EMCS380
EAN	5019586151780
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	81 millimetre
Product weight	0.721 kilogram
Compliances	RoHS conform
Product Tradename	None
Product Type	Distribution parts
Product Sub Type	None
Public Consumption	Yes
Product Family Description	ES-PMCC-PDC-Eaton Distribution parts
Globally Marketable	Yes
Ambient operating temperature - max	55 °C
Ambient operating temperature - min	-25 °C
Amperage Rating	80 A
Application	Switchgear for residential and commercial applications
Built-in depth	75 mm
Connectable conductor cross section (multi-wired) - max	50 mm ²
Connectable conductor cross section (multi-wired) - min	2.5 mm ²
Connectable conductor cross section (solid-core) - max	50 mm ²
Connectable conductor cross section (solid-core) - min	2.5 mm ²
Current limiting class	3
Degree of protection	IP20
Equipment heat dissipation, current-dependent	21.4 W
Features	Additional equipment possible
Frequency rating - max	60 Hz
Frequency rating - min	50 Hz
Heat dissipation capacity	0 W
Number of poles	Three-pole
Number of poles (protected)	3
Number of poles (total)	3
Overvoltage category	III
Pollution degree	2
Rated impulse withstand voltage (Uimp)	4 kV
Rated insulation voltage (Ui)	440 V
Rated operational current for specified heat dissipation (In)	80 A
Rated operational voltage (Ue) - max	400 V
Rated short-circuit breaking capacity (EN 60898) at 230 V	0 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	0 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	20 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	20 kA
Rated switching capacity (IEC/EN 60947-2)	20 kA
Release characteristic	C
Special features	Ambient temperature hint: a 1 °C increase results in a 0.35% linear reduction of current carrying capacity

Static heat dissipation, non-current-dependent		0 W
Tripping characteristic		C
Type		EM Miniature circuit breaker
Used with		Miniature circuit breaker EM
Voltage type		AC
Width in number of modular spacings		4.5

Technical data ETIM 8.0

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) (ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Built-in depth	mm	75
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} according to EN 60898 at 230 V	kA	0
Voltage type		AC
Rated short-circuit breaking capacity I_{cn} according to EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity I_{cu} according to IEC 60947-2 at 230 V	kA	20
Rated short-circuit breaking capacity I_{cu} according to IEC 60947-2 at 400 V	kA	20
Frequency	Hz	50 - 60
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4.5
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
Explosion-proof		No