



Miniature circuit breaker (MCB), 20 A, 1p, characteristic: C

Part no.

mMC4-C20/1

Catalog No.

138800

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	I_n	A	20
Rated switching capacity according to IEC/EN 60898-1	I_{cn}	kA	4.5
Product range			mMC4

Technical data

Electrical

Rated switching capacity according to IEC/EN 60898-1	I_{cn}	kA	4.5
Rated insulation voltage	U_i	V	440
Rated impulse withstand voltage	U_{imp}	kV	4
lifespan			
Electrical	Operations		≥ 10000
Mechanical	Operations		≥ 20000

References

Auxiliary switch for subsequent installation			ZP-IHK 286052
Tripping signal contact for subsequent installation			ZP-NHK 248437
Remote control and automatic switching device			Z-FW/LP 248296
Switching interlock			Z-IS/SPE-1TE 274418

Mechanical

Standard front dimension		mm	45
Device height		mm	80
Mounting			Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Degree of Protection			IP20
Terminals top and bottom			Open mouthed/lift terminals
Terminal protection			finger and hand touch safe, DGUV VS3, EN 50274
Thickness of busbar material		mm	0.8 - 2

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	20
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	3.2
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	75
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Release characteristic			C
Number of poles (total)			1
Number of protected poles			1
Rated current		A	20
Rated voltage		V	230
Rated insulation voltage Ui		V	440
Rated impulse withstand voltage Uimp		kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V		kA	4.5
Rated short-circuit breaking capacity Icn EN 60898 at 400 V		kA	4.5
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V		kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V		kA	0
Voltage type			AC
Frequency		Hz	50 - 60
Current limiting class			3
Suitable for flush-mounted installation			Yes
Concurrently switching N-neutral			No
Over voltage category			3
Pollution degree			2
Additional equipment possible			Yes
Width in number of modular spacings			1
Built-in depth		mm	70.5
Degree of protection (IP)			IP20
Ambient temperature during operating		°C	-25 - 40
Connectable conductor cross section multi-wired		mm ²	2 - 16
Connectable conductor cross section solid-core		mm ²	1.5 - 35