## DATASHEET - MMCM-C10/1



Miniature circuit breaker (MCB), 10 A, 1p, characteristic: C



mMCM-C10/1 138877



## **Delivery program**

		Miniature circuit-breakers
		1 pole
		C
		Switchgear for residential and commercial applications
I <sub>n</sub>	А	10
I <sub>cn</sub>	kA	10
		mMCM
		~~~
		10 M
		-91,
l <sub>cn</sub>	kA	10
Ui	V	440
U <sub>imp</sub>	kV	4
		0
Operations	.0	≧ 10000
Operations	20	≧ 20000
0	2	
10		ZP-IHK 286052
N.		ZP-NHK 248437
$\sim$		Z-FW/LP 248296
		Z-IS/SPE-1TE 274418
	mm	45
	mm	80
		$\Omega uick$ attachment with 3 latch positions for top-hat rail IEC/EN 60715
		IP20
		Open mouthed/lift terminals
		BGV A3, ÖVE-EN 6
	I <sub>cn</sub> I <sub>cn</sub> U <sub>i</sub> U <sub>imp</sub> Operations	I <sub>cn</sub> kA I <sub>cn</sub> kA U <sub>i</sub> V U <sub>imp</sub> kV Operations Operations

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	Α	10
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.5
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
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echnical data ETIM 5.0	. 6
rcuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)	NY CONTRACTOR

## **Technical data ETIM 5.0**

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8-27-14-19-01 [AAB905010])					
Release characteristic	10		C		
Number of poles (total)	L'		1		
Rated current	>	А	10		
Rated voltage		V	230		
Rated short-circuit breaking capacity EN 60898		kA	10		
Rated short-circuit breaking capacity IEC 60947-2		kA	0		
Voltage type			AC		
Current limiting class			3		
Frequency		Hz	50		
Concurrently switching N-neutral			No		
Over voltage category			3		
Pollution degree			2		
Width in number of modular spacings			1		
Built-in depth		mm	70.5		
Additional equipment possible			Yes		
Degree of protection (IP)			IP20		