DATASHEET - MMCM-C32/3

Part no. Catalog No.



Miniature circuit breaker (MCB), 32 A, 3p, characteristic: C





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	А	32		
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10		
Product range			10 40		
			P		
Technical data					
Electrical					
Rated switching capacity according to IEC/EN 60898-1	l _{cn}	kA	10		
Rated insulation voltage	Ui	V	440		
Rated impulse withstand voltage	U _{imp}	kV	4		
lifespan					
Electrical	Operations		≧ 10000		
Mechanical	Operations		≧ 20000		
References			~		
Auxiliary switch for subsequent installation		ů.,	ZP-IHK 286052		
Tripping signal contact for subsequent installation		S	ZP-NHK 248437		
Remote control and automatic switching device		2	Z-FW/LP 248296		
Switching interlock	~	\sim	Z-IS/SPE-1TE 274418		
Mechanical	11				
Standard front dimension	1	mm	45		
Device height	\sim	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		
Switching interlock Mechanical Standard front dimension Device height Mounting Degree of Protection Terminals top and bottom Terminal protection Thickness of busbar material			BGV A3, ÖVE-EN 6		
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	А	32
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	12.1
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
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.

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)	415
Fechnical data ETIM 5.0	201
	leaflet (IL) is observed.
10.12 Electromagnetic compatibility 10.13 Mechanical function	Is the panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9 Insulation properties	
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.

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])

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umber of poles (total)		.0	3
ated current		A	32
ated voltage	~	V	230
ated short-circuit breaking capacity EN 60898	16.	kA	10
ated short-circuit breaking capacity IEC 60947-2	S.	kA	0
oltage type)~		AC
urrent limiting class			3
requency		Hz	50
oncurrently switching N-neutral			No
ver voltage category			3
ollution degree			2
lidth in number of modular spacings			3
uilt-in depth		mm	70.5
dditional equipment possible			Yes
egree of protection (IP)			IP20
SVI			