DATASHEET - MMCT-B50/1



Circuit-breaker; 50 A; 1p; Type B characteristic

mMCT-B50/1 Part no. Catalog No. 152565



Delivery program

zonitor, program			
Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			В
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	50
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	25
Product range			mMCT

Technical data

Electrical

Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	25
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	ZP-IHK 286052
Tripping signal contact for subsequent installation	ZP-NHK 248437
Switching interlock	Z-IS/SPE-1TE 274418
Machaniael	

Mechanical

Wiconamoa		
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
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	In	Α	50
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	5.1
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-30
Operating ambient temperature max.		°C	55
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity

Technical data ETIM 7.0

Circuit breakers and fuses	/ECONONN / Ministure	a circuit brooker (MACI	2) (ECUUUU\3)
Circuit breakers and luses	(LUUUUUZU) / IVIIIIIatui t	e circuit breaker (ivici	J/(LGUUUU42/

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])

(CCC 3310.0.1 27 14 10 01 [AAD 000014])		
Release characteristic	В	
Number of poles (total)	1	

Rated current A 50 Rated voltage V 400 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 0 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type AC AC Frequency Hz 50 - 60 Current limiting class 3 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral No No Over voltage category 3 3 Pollution degree 2 2 Additional equipment possible Yes Width in number of modular spacings Image: Properties of the properties				
Rated voltage V 400 Rated insulation voltage Uin V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 0 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type kA 25 Frequency kA 25 Current limiting class 3 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral No No Over voltage category 3 3 Pollution degree 2 2 Additional equipment possible Yes Width in number of modular spacings 1,5 Built-in depth mm 75 Degree of protection (IP) IP20 Ambient temperature during operating "C 25 - 55 Connectabl	Number of protected poles			1
Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60988 at 230 V kA 0 Rated short-circuit breaking capacity Icn EN 60988 at 400 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type AC AC Frequency Hz 50 - 60 Current limiting class 3 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral No No Over voltage category 3 3 Pollution degree 2 2 Additional equipment possible Yes Width in number of modular spacings 1.5 Built-in depth mm 75 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 25 - 50 </td <td>Rated current</td> <td>А</td> <td>4</td> <td>50</td>	Rated current	А	4	50
Rated impulse withstand voltage Ulimp KV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Voltage type Hz 50 - 60 Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral No Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Built-in depth Connectable conductor cross section multi-wired Mm² 25-55 Connectable conductor cross section multi-wired Rate dimpulse withstand on the Act of Capacity Icn IEC 60947-2 at 230 V RA 0 Conscience at the conductor cross section multi-wired Rate dimpulse withstand on the Act of Capacity Icn IEC 60947-2 at 230 V RA 0 Conscience at the conductor cross section multi-wired Rate dimpulse withstand on the Act of Capacity Icn IEC 60947-2 at 230 V RA 0 Conscience at the conductor cross section multi-wired Rate dimpulse withstand on the Act of Capacity Icn IEC 60947-2 at 230 V RA 0 Conscience at the conductor cross section multi-wired RA 25 Connectable conductor cross section multi-wired RA 25 Connectable conductor cross section multi-wired RA 25 AC Connectable conductor cross section multi-wired RA 25 AC AC AC AC AC AC AC AC AC A	Rated voltage	V	/	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	Rated insulation voltage Ui	V	/	440
Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RAC Requency Re	Rated impulse withstand voltage Uimp	k'	κV	4
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Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired KA 25 AC AC AC No No No 1 3 2 2 4 7 8 1 1 1 1 1 1 1 1 1 1 1 1	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	k	κA	0
Voltage type Hz 50 - 60 Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired AC AC AC Built-in depth Mm 75 Connectable conductor cross section multi-wired AC NO NO NO NO 1.5 P20 1.5 P20 Ambient temperature during operating CC -25 - 55 Connectable conductor cross section multi-wired ME AC P1 P20 AC CO P25 - 55 Connectable conductor cross section multi-wired ME AC P1 P20 AC P3 AC P4 P5 P5 P6 P7 P7 P7 P7 P7 P7 P7 P7 P7	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	k	κA	25
Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Hz 50 - 60 No No No No No No Yes 1.5 PED	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	k	κA	25
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Over voltage category Solution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired 3 Yes Yes 1.5 Mmm 75 IP20 Connectable conductor cross section multi-wired mm² 2.5 - 55	Suitable for flush-mounted installation			No
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 1.5 Built-in depth mm 75 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 -55 Connectable conductor cross section multi-wired mm² 2.5 - 50	Concurrently switching N-neutral			No
Additional equipment possible Width in number of modular spacings Built-in depth mm 75 Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired Yes 1.5 IP20	Over voltage category			3
Width in number of modular spacings 1.5 Built-in depth mm 75 Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50	Pollution degree			2
Built-in depth mm 75 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50	Additional equipment possible			Yes
Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50	Width in number of modular spacings			1.5
Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50	Built-in depth	m	mm	75
Connectable conductor cross section multi-wired mm² 2.5 - 50	Degree of protection (IP)			IP20
	Ambient temperature during operating	٥	C	-25 - 55
Connectable conductor cross section solid-core mm ² 2.5 - 50	Connectable conductor cross section multi-wired	m	nm²	2.5 - 50
	Connectable conductor cross section solid-core	m	nm²	2.5 - 50