Miniature circuit breaker (MCB), 50 A, 3p+N, characteristic: C



Part no. HN-C50/3N Catalog No. 194916

Del	livery	progra	m

Basic function			Miniature circuit-breakers
Number of poles			3 pole+N
Tripping characteristic			С
Application			Switchgear for residential and commercial applications
Rated current	In	Α	50
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	6
Product range			HN

Technical data

Electrical

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Design verification as per IEC/EN 61439

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	15.3
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.
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 be observed.

10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Cincolis based on a send force of	/FC000000\ / NA::-+	circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (eci@ss10.0.1-27-14-19-01 [AAB905014])

Number of protected poles Rated current Rated current Rated voltage Rated voltage Rated insulation voltage Ui Rated insulation voltage Uimp Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V Rated short-circuit breaking capacity Icu according to EC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu	(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Number of poles (total) 4 Number of protected poles 4 Rated current A 50 Rated voltage V 230 Rated insulation voltage Uimp V 440 Rated impulse withstand voltage Uimp KV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V KA 6 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 230 V KA 6 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 230 V KA 6 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 230 V KA 6 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 230 V KA 6 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 230 V KA 6 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 230 V KA 6 Current limiting class Hz 9 8 <th< td=""><td>Built-in depth</td><td>mm</td><td>44</td></th<>	Built-in depth	mm	44
Number of protected poles 3 Rated current A 5 Rated voltage V 20 Rated insulation voltage Ui V 44 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V KA 6 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Icu according to EC 60847-2 at 230 V KA 6 Rated short-circuit breaking capacity Icu according to IEC 60847-2 at 2400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60847-2 at 2400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60847-2 at 2400 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60847-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60847-2 at 2400 V KA 0 Current limiting class Yes Yes Concurrently switching neutral conductor Yes Yes Over voltage category Yes Yes	Release characteristic		С
Rated current Rated voltage Rated voltage Rated insulation voltage Ui Rated insulation voltage Uin Rated insulation voltage Uin Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-ci	Number of poles (total)		4
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Voltage type Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capa	Rated impulse withstand voltage Uimp	kV	4
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Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Requency Requ	Voltage type		AC
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Frequency Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core KA 0 50 - 60 70 80 90	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	6
Frequency Current limiting class Current limiting class Flush-mounted installation Concurrently switching neutral conductor Concurrently switching neutral conductor Core voltage category Core voltage category Pollution degree Additional equipment possible Width in number of modular spacings Voltath in number of modular spacings Voltath in number of modular spacings Voltath in number of modular spacings Ambient temperature during operating Connectable conductor cross section multi-wired Minume Mi	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	0
Current limiting class Flush-mounted installation Concurrently switching neutral conductor Cover voltage category Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Name Section 1	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	0
Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Tests Yes Yes Yes Yes 1 P20 1 1 2 2 2 3 4 1 2 2 2 3 4 4 1 2 4 1 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4			
Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Wighth in number of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Piss Yes Yes 4 Pos Pos Pos Pos Pos 1-25 1-25	Frequency	Hz	50 - 60
Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Pogree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Poerror of modular spacings Poerror of protection (IP) Poerror of modular spacings Poerror of protection (IP) Poerror of protect	· '	Hz	
Pollution degree3Additional equipment possibleYesWidth in number of modular spacings4Degree of protection (IP)IP20Ambient temperature during operating°CConnectable conductor cross section multi-wiredmm²Connectable conductor cross section solid-coremm² 1-25	· '	Hz	3
Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Type Yes 4 1-25 1-25	Current limiting class Flush-mounted installation	Hz	3 Yes
Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core mm² 1-25	Current limiting class Flush-mounted installation Concurrently switching neutral conductor	Hz	3 Yes Yes
Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category	Hz	3 Yes Yes 3
Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category	Hz	3 Yes Yes 3 3
Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree	Hz	3 Yes Yes 3 3 Yes
Connectable conductor cross section solid-core mm² 1 - 25	Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings	Hz	3 Yes Yes 3 3 Yes 4
	Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Degree of protection (IP)		3 Yes Yes 3 3 Yes 4 IP20
Explosion-proof No	Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating	°C	3 Yes Yes 3 3 Yes 4 IP20 -25 - 75
	Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired	°C mm²	3 Yes Yes 3 3 Yes 4 IP20 -25 - 75 1 - 25