Miniature circuit breaker (MCB), 50 A, 1p, characteristic: C



Part no. HL-C50/1 Catalog No. 194736

	gram

Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	In	Α	50
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	4.5
Product range			HL

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	4.5
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

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

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ec/@ss10.01-27-14-19-01 [AAR905014])

Release characteristic Aumber of poles (total) Aumber of protected poles Aumber of protected poles Author of protectic preaking capacity Icn according to EN 60898 at 230 V Author of protectic preaking capacity Icn according to EN 60898 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 230 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of protectic preaking capacity Icn according to IEC 60947-2 at 400 V Author of preaking capacity Icn according to IEC 60947-2 at 400 V Author of preaking capacity Icn according to IEC 60947-2 at 400 V Author of preaking capacity Icn according to IEC 60947-2 at 400 V Author of preaking capacity Icn according to IEC 60947-2 at 400 V Author of preaking capacity Icn according to IEC 60947-2 at 400 V Author of preaking capacity Icn according to IEC 60947-2 at 400 V Author of preaking capaci	(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Aumber of poles (total) Aumber of protected poles Acted current Acted voltage Acted voltage Acted voltage Acted impulse withstand voltage Uimp Acted short-circuit breaking capacity Ion according to EN 60898 at 230 V Acted short-circuit breaking capacity Ion according to EN 60898 at 230 V Acted short-circuit breaking capacity Ion according to EN 60898 at 400 V Acted short-circuit breaking capacity Ion according to EN 60898 at 400 V Acted short-circuit breaking capacity Ion according to EN 60898 at 400 V Acted short-circuit breaking capacity Ion according to EN 60898 at 400 V Acted short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 400 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 400 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 400 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 400 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 400 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 400 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 400 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit breaking capacity Ion according to IEC 60947-2 at 230 V Acted Short-circuit b	Built-in depth	mm	44
Author of protected poles Acted current Acted voltage Acted insulation voltage Uin Acted insulation voltage Uinp Acted insulation voltage Uinp Acted short-circuit breaking capacity Icn according to EN 60898 at 400 V Acted short-circuit breaking capacity Icn according to EN 60898 at 400 V Acted short-circuit breaking capacity Icn according to EN 60898 at 400 V Acted short-circuit breaking capacity Icn according to EN 60898 at 400 V Acted short-circuit breaking capacity Icn according to EN 60898 at 400 V Acted short-circuit breaking capacity Icu according to EN 60898 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Acted short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Acted short-circuit b	Release characteristic		C
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Asted insulation voltage Uim Asted insulation voltage Uimp Asted short-circuit breaking capacity Icn according to EN 60898 at 230 V Asted short-circuit breaking capacity Icn according to EN 60898 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Asted short-circu	Rated current	Α	50
Asted impulse withstand voltage Ulimp kV 4 Acted short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 4.5 Acted short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 4.5 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 5 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 6 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V kA 7 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V kA 8 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 9 Acted short	Rated voltage	V	230
Asted short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 4.5 According type According to EN 60898 at 400 V kA 4.5 Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Concurrently switching capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Active diated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V kA 0 Active diated short-circuit	Rated insulation voltage Ui	V	440
AC lated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 4.5 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V kA 0 Rated short-circ	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V $$	kA	4.5
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	Voltage type		AC
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Frequency	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V $$	kA	4.5
trequency Current limiting class Clush-mounted installation Concurrently switching neutral conductor Concurrently switc	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	0
Current limiting class Currently switching neutral conductor Concurrently switching neutral conductor Conscience Concurrently switching neutral conductor Concur	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	kA	0
Flush-mounted installation Footpur voltage category Footbur voltage	Frequency	Hz	50 - 60
Concurrently switching neutral conductor Over voltage category 3 Pollution degree 3 Additional equipment possible Vidth in number of modular spacings No IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section solid-core mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Current limiting class		3
Over voltage category 3 Pollution degree 3 Additional equipment possible Width in number of modular spacings Vegree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core 3 Yes 1 1 20 20 21 22 25 25 26 27 25 26 27 26 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Flush-mounted installation		Yes
Pollution degree 3 3 Additional equipment possible Yes Width in number of modular spacings 1 1 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	Concurrently switching neutral conductor		No
Additional equipment possible Width in number of modular spacings Pegree of protection (IP) Ambient temperature during operating Ponnectable conductor cross section multi-wired Connectable conductor cross section solid-core Pesson median sequence of protection (IP) Pesson med	Over voltage category		3
Vidth in number of modular spacings 1 Degree of protection (IP) 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	Pollution degree		3
Degree of protection (IP) 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	Additional equipment possible		Yes
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	Width in number of modular spacings		1
Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Degree of protection (IP)		IP20
Connectable conductor cross section solid-core mm² 1 - 25	Ambient temperature during operating	°C	-25 - 75
	Connectable conductor cross section multi-wired	mm²	1 - 25
ixplosion-proof No	Connectable conductor cross section solid-core	mm²	1 - 25
	Explosion-proof		No