Miniature circuit breaker (MCB), 40 A, 1p, characteristic: C



Part no. HL-C40/1 Catalog No. 194735

Delivery program	De	livery	pro/	gram
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Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	In	Α	40
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	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	3.4
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 b 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) (pc)(0xs10.01-171-14-19-01 [AAR905014])

Release characteristic Number of poles (total) Number of protected poles Rated current Rated current Rated current Rated insulation voltage Ui Rated insulation voltage Uimp Rated short-circuit breaking capacity Icn according to EN 60998 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60998 at 400 V Rated short-circuit breaking capacity Icn according to EN 60998 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn according to IEC 60947-2 at 400 V Rated short-circuit breaking papacity Icn acc	(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
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Number of protected poles 1 Rated current A 40 Rated voltage V 230 Rated insulation voltage Uin V 440 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 4.5 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 4.5 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 4.5 Rated short-circuit breaking capacity Icu according to EN 608947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 2400 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Frequency kA 0 Current limiting class S 50 - 60 Current limiting class S No Concurrently switching neutral conductor No No Over voltage category S 3 Pollution degree 3 3 Additional equipment possible Yes Width in number of modular spacings Image to the space of pr	Release characteristic		С
Rated current A 40 Rated voltage V 230 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 4.5 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 4.5 Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 2400 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 Current limiting class Yes 50 - 60 Current limiting class Yes 3 Flour-mounted installation Yes 3 Dour voltage category 3 3 Pollution degree 3 4 Additional equipment possible Yes Width in number of modular spacings Yes Degree of protection (IP) 125 <td>Number of poles (total)</td> <td></td> <td>1</td>	Number of poles (total)		1
Rated voltage Rated insulation voltage Ui 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 Icn 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 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 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 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to EC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to EC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to EC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to EC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to EC 60947-	Number of protected poles		1
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Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA College type Rated short-circuit breaking capacity Icn 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 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 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 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 cap	Rated insulation voltage Ui	V	440
AC 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 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 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 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	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 kA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 0 Frequency Hz 50 - 60 Current limiting class 3 Flush-mounted installation Yes Concurrently switching neutral conductor No Over voltage category 3 Pollution degree 3 Additional equipment possible Yes Width in number of modular spacings 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	Voltage type		AC
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	4.5
Frequency Current limiting class Current limiting class Flush-mounted installation Concurrently switching neutral conductor Concurrently switching neutral conductor Cover voltage category Cover voltage cate	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 Over voltage category Over voltage category 3 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 "C" 1 - 25 Connectable conductor cross section solid-core "M" 1 - 25	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 protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Yes Yes 1 IP20 Connectable conductor cross section solid-core mm² 1 - 25	Frequency	Hz	50 - 60
Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Figure of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core No 1 2 3 4 4 4 5 6 7 6 7 7 7 7 7 7 7 7 7 7	Current limiting class		3
Over voltage category Over voltage category 3 Additional equipment possible Width in number of modular spacings Under voltage of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core 3 Yes 1 1 1 1 1 1 1 1 1 1 1 1 1	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 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	Over voltage category		3
Width in number of modular spacings 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			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	Additional equipment possible		
Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Additional equipment possible Width in number of modular spacings		1
Connectable conductor cross section solid-core mm² 1 - 25			
	Width in number of modular spacings	°C	IP20
Ala.	Width in number of modular spacings Degree of protection (IP)		IP20 -25 - 75
Explosion-proof No	Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating	mm²	IP20 -25 - 75 1 - 25