DATASHEET - PLHT-C50/3



Miniature circuit breaker (MCB), 50A, 3p, C-Char, AC

Powering Business Worldwide*

Part no. PLHT-C50/3 Catalog No. 248037

EL-Nummer (Norway)

1609524

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			С
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			PLHT

Technical data

Electrical

I _{cu} kA 25

Design verification as per IEC/EN 61439

lesign verification as per IEC/EN 61439			
echnical 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	15.4
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	55
			linear, per +1 °C, results in a 0.35% reduction of current carrying capacity
C/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 wi 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

Bull-in depth Minume	Technical data ETIM 8.0						
Bull-in depth Minume	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042	2)					
Release characteristic Rumber of poles (total) Rumber of protected poles Rated current Rated voltage Rated insulation voltage Ui Rated insulation voltage Ui Rated short-circuit breaking capacity Icn according to EN 66898 at 230 V Rated short-circuit breaking capacity Icn according to EN 66898 at 400 V Rated short-circuit breaking capacity Icn according to EN 66898 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 230 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400 V Rated short-circuit breaking capacity Icn according to IEC 66947-2 at 400	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])						
Author of poles (total) Author of protected poles Alted current Alted voltage Alted voltage Alted impulse withstand voltage Uimp Alted impulse withstand voltage Uimp Alted short-circuit breaking capacity Icn according to EN 66989 at 230 V Alted short-circuit breaking capacity Icn according to EN 66989 at 230 V Alted short-circuit breaking capacity Icn according to EN 66989 at 230 V Alted short-circuit breaking capacity Icn according to EN 66989 at 230 V Alted short-circuit breaking capacity Icn according to EN 66989 at 230 V Alted short-circuit breaking capacity Icn according to IEC 66947-2 at 230 V Alted short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaking capacity Icu according to IEC 66947-2 at 230 V Alted of short-circuit breaki	Built-in depth		mm	75			
Author of protected poles Asted current Asted voltage Asted insulation voltage Uin Asted insulation voltage Uinp 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 EN 60898 at 400 V Asted short-circuit breaking capacity Icn according to EN 60898 at 400 V Asted short-circuit breaking capacity Icn according to EN 60898 at 400 V Asted short-circuit breaking capacity Icn according to EN 60898 at 400 V Asted short-circuit breaking capacity Icu according to EN 60898 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Asted Short-circuit breaking capacity Icu according to	Release characteristic			С			
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Asted impulse withstand voltage Ulimp kV 4 Acc Acc Acc Acc Act 4 Acc Act 4 Acc 4 Ac	Rated voltage		V	400			
Asted short-circuit breaking capacity Icn according to EN 60898 at 230 V Altated short-circuit breaking capacity Icn according to EN 60898 at 400 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Altated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V	Rated insulation voltage Ui		V	440			
AC Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V	Rated impulse withstand voltage Uimp		kV	4			
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 $\mbox{\ensuremath{\text{V}}}$		kA	0			
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu according to ICu	Voltage type			AC			
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Frequency Hz 50 - 60 Current limiting class Glush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Auditional equipment during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Materia	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V $$		kA	0			
Frequency Current limiting class Current limiting class Clush-mounted installation Concurrently switching neutral conductor Concurrently switching neutral condu	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V $$		kA	25			
Current limiting class Current limital current current current conductor Current limiting class Current limiting current limiting conductor Current limiting current limiting current limiting current limiting current limiting current limiting current li	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$		kA	25			
Flush-mounted installation Concurrently switching neutral conductor Over voltage category 3 Collution degree Conditional equipment possible Width in number of modular spacings Vegree of protection (IP) Connectable conductor cross section multi-wired Connectable conductor cross section solid-core No Connectable	Frequency		Hz	50 - 60			
Concurrently switching neutral conductor Over voltage category Collution degree Collution degree Additional equipment possible Width in number of modular spacings Ambient temperature during operating Connectable conductor cross section solid-core No No Section Section Solid-core No No Section Solid-core	Current limiting class			3			
Over voltage category Over voltage category Over voltage category Over voltage category 2 Additional equipment possible Ves Ves Ves Ougree of protection (IP) IP20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50 Connectable conductor cross section solid-core mm² 2.5 - 50	Flush-mounted installation			No			
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 4.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50 Connectable conductor cross section solid-core mm² 2.5 - 50	Concurrently switching neutral conductor			No			
Additional equipment possible Width in number of modular spacings Ambient temperature during operating Connectable conductor cross section solid-core Yes 4.5 P20 P20 P20 P25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50 Connectable conductor cross section solid-core mm² 2.5 - 50	Over voltage category			3			
Width in number of modular spacings 4.5 Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50 Connectable conductor cross section solid-core mm² 2.5 - 50	Pollution degree			2			
Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50 Connectable conductor cross section solid-core mm² 2.5 - 50	Additional equipment possible			Yes			
Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 2.5 - 50 Connectable conductor cross section solid-core mm² 2.5 - 50	Width in number of modular spacings			4.5			
Connectable conductor cross section multi-wired mm² 2.5 - 50 Connectable conductor cross section solid-core mm² 2.5 - 50	Degree of protection (IP)			IP20			
Connectable conductor cross section solid-core mm² 2.5 - 50	Ambient temperature during operating		°C	-25 - 55			
	Connectable conductor cross section multi-wired		mm²	2.5 - 50			
Explosion-proof No	Connectable conductor cross section solid-core		mm²	2.5 - 50			
	Explosion-proof			No			