DATASHEET - PLS6-C1,6/4-MW



Miniature circuit breaker (MCB), 1,6A, 4p, type C characteristic

Powering Business Worldwide*

Part no. PLS6-C1,6/4-MW Catalog No. 243074

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			4 pole
Tripping characteristic			С
Application			Switchgear for residential and commercial applications
Rated current	In	Α	1.6
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	6
Product range			PLS6

Technical data

Electrical

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Design verification as per IEC/EN 61439

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echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1.6
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	6.4
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
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 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 7.0

Electrice njineering. automation, process control engineering. / Electrical installatoric device / Service star system (MCB) / Miniature circuit breaker (MCB) (Electrical status of electrical installatoric view between system (MCB) / Miniature circuit breaker (MCB) (Electrical status of electrical installatoric view between system (MCB) / Miniature circuit breaker (MCB) (Electrical status of electrical st	Technical data ethivi 7.0					
Care	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)					
Number of poles (total) 4 Number of protected poles 4 Rated current A 16. Rated voltage V 400 Rated insulation voltage Uin V 40 Rated insulation voltage Uinp KV 40 Rated short-circuit breaking capacity Icn EN 60898 at 230 V KA 6 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Voltage type B L 0 Current limiting class L 0 0 Current limiting class L No 0 Current limiting class L No 0 Current limiting class L 2 2 Current limiting class L 2 2	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])					
Number of protected poles 4 Rated current A 1.6 Rated voltage V 40 Rated insulation voltage Uin V 40 Rated inpulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 6 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 6 Rated short-circuit breaking capacity Icu EC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 400 V kA 0 Voltage type kA 0 0 Current limiting class by Ca 0 Suitable for flush-mounted installation by Ca 0 Concurrently switching N-neutral by Ca 0 Over voltage category by Ca 3 Pollution degree by Ca 4 Additional equipment possible by Ca 4 Width in number of modular spacings by Ca 4 Bull-in depth c by Ca Degree of protection (IP) c	Release characteristic		C			
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Rated insulation voltage Uin V 440 Rated insulation voltage Uinp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 6 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 0 Voltage type kA 0 Current limiting class kA 50-60 Suitable for flush-mounted installation kA No Concurrently switching N-neutral kA 3 Over voltage category kA 3 Pollution degree kA x Additional equipment possible k ys Writch in number of modular spacings k ys Built-in depth p p p Degree of protection (IP) p p Ambient temperature during operating c c c Connectable conductor cross section multi-wired m m p	Rated current	Α	1.6			
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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 Icu IEC 60947-2 at 230 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 Voltage type 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 Conectable conductor cross section multi-wired MA 6 AC C AC AC No AC Voltage Category No Vos Sala Sala	Rated insulation voltage Ui	V	440			
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Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Frequency 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 kA C AC AC AC AC AC AC AC AC	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	6			
Voltage type Frequency 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 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 AC PU 50 - 60 No No No Concurrently switching N-neutral No Ve 4 Pes Width in number of modular spacings Pu 50 - 55 Connectable conductor cross section multi-wired Pu 50 - 60 No No No No Concurrently switching N-neutral No No Pollution degree Pyes Concurrently switching N-neutral No No No No Pollution degree Pyes Concurrently switching N-neutral No No No Concurrently switching N-neutral No No Pollution degree Pyes Concurrently switching N-neutral No No Concurrently switching N-neutral No No Concurrently switching N-neutral No No Pes Concurrently switching N-neutral No No Pollution degree Pyes Concurrently switching N-neutral No No No Concurrently switching N-neutral No No Concurrently switching N-neutral No No Concurrently switching N-neutral No No Pes Concurrently switching N-neutral No No No Concurrently switching N-neutral No No No Concurrently switching N-neutral No No Concurrently switching N-neutral No No No Concurrently switching N-neutral No No No Concurrently switching N-neutral No No No No Concurrently switching N-neutral No No No No Pes Concurrently switching N-neutral No No No Concurrently switching N-neutral No No No Concurrently switching N-neutral No No Concurrently switching N-neutral No No Concurrently switching N-neutral No No No Concurrently s	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0			
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Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired No No No 4 Pollution degree 2 Additional equipment possible Wes 4 Po.5 IP20 Ambient temperature during operating C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Frequency	Hz	50 - 60			
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Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings 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 4 Pun 70.5 IP20 Ambient temperature during operating C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Suitable for flush-mounted installation		No			
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 4 Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 -55 Connectable conductor cross section multi-wired mm² 1 - 25	Concurrently switching N-neutral		No			
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 Yes 4 Pu 70.5 Pp 90 Pp 1-25	Over voltage category		3			
Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating "C" -25 - 55 Connectable conductor cross section multi-wired "m" 1 - 25	Pollution degree		2			
Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Additional equipment possible		Yes			
Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Width in number of modular spacings		4			
Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Built-in depth	mm	70.5			
Connectable conductor cross section multi-wired mm ² 1 - 25	Degree of protection (IP)		IP20			
	Ambient temperature during operating	°C	-25 - 55			
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section multi-wired	mm²	1 - 25			
	Connectable conductor cross section solid-core	mm²	1 - 25			