DATASHEET - PLS6-C0,5/2-MW



Miniature circuit breaker (MCB), 0,5A, 2p, type C characteristic

Powering Business Worldwide*

Part no. PLS6-C0,5/2-MW Catalog No. 242864

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	In	Α	0.5
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	6

PLS6

Technical data

Electrical

Product range

I _{cn} kA 6

echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0.5
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	2.4
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 wil 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 installation device / Sevice / Sevic	recililical uala Ettivi 7.0	rechnical data Ethyl 7.0				
Company Comp	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)					
Number of poles (total) 2 Number of protected poles 2 Rated current A 0.5 Rated voltage V 400 Rated insulation voltage Uin V 40 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 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 A 0 Current limiting class B N 0 Current limiting class B No 0 Current limiting class B N 0 Currently switching N-neutral B 2 2 Cultification age region B 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 2 Rated current A 0.5 Rated voltage V 400 Rated insulation voltage Ui V 440 Rated inpulse withstand voltage Uimp KA 6 Rated short-circuit breaking capacity Icn EN 60898 at 230 V KA 6 Rated short-circuit breaking capacity Icu EC 60947-2 at 230 V KA 6 Rated short-circuit breaking capacity Icu EC 60947-2 at 2400 V KA 0 Rated short-circuit breaking capacity Icu EC 60947-2 at 400 V KA 0 Voltage type KA 0 0 Frequency KA 0 0 Current limiting class No 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral No No Over voltage category Yes 3 Pollution degree Yes Yes Additional equipment possible Yes Yes Built-in dapth Yes Yes Degree of protection (IP) Yes Yes <td>Release characteristic</td> <td></td> <td>C</td>	Release characteristic		C			
Rated current A 0.5 Rated voltage V 400 Rated insulation voltage Ui V 440 Rated insulation voltage Uimp VV 40 Rated short-circuit breaking capacity Ion EN 60898 at 230 V KA 6 Rated short-circuit breaking capacity Ion EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Ion EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Ion EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Ion EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Ion EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Ion EN 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Ion EN 608947-2 at 230 V KA 0 Rated short-circuit breaking capacity Ion EN 608947-2 at 230 V KA 0 Coltage type AC AC Courrent limiting class No No Suitable for flush-mounted installation Counterably witching N-neutral No Q Over voltage category Yes <	Number of poles (total)		2			
Rated voltage V 400 Rated insulation voltage Ui V 440 Rated impulse 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 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 C Frequency AC AC Current limiting class Built-in depth No No Concurrently switching N-neutral No No Concurrently switching N-neutral No No Over voltage category No No Pollution degree Yes No Additional equipment possible Yes Width in number of modular spacings m 2 Built-in depth m 70.5 Degree of protection (IP) mm 70.5 Amient temperature during operating	Number of protected poles		2			
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 xS Additional equipment possible kS xS Writch in number of modular spacings kS yS Built-in depth kS pS Degree of protection (IP) kS pS Ambient temperature during operating cS 25-55 Connectable conductor cross section multi-wired mm² 1-25	Rated current	А	0.5			
Rated impulse withstand voltage Uimp 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 Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 2400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 2400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 2400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 2400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 250 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 2	Rated voltage	V	400			
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 Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired AC AC AC AC AC PO 40 50 - 60 No No No 2 2 40 40 70 40 70 40 70 40 70 70	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0			
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 Currently switching N-neutral No No Voe No No Voe No	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	0			
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 3 No No No 2 4 7 7 7 8 7 7 7 7 7 7 7 7 7	Voltage type		AC			
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 No No Yes 2 4 70.5 1-25 1-25	Frequency	Hz	50 - 60			
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 No Yes 2 Pus Yes 70.5 Peg Peg Peg 1-25	Current limiting class		3			
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 3 Yes Yes 70.5 IP20 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 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	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 2 Pun 70.5 Pp0 Pp0 -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Over voltage category		3			
Width in number of modular spacings 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	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		2			
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			