## DATASHEET - PLS6-D6/2-MW

## Miniature circuit breaker (MCB), 6 A, 2p, characteristic: D



PLS6-D6/2-MW 242897

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Product name	Eaton Moeller series xPole - PLS6/M MCB
Part no.	PLS6-D6/2-MW
EAN	4015082428976
Product Length/Depth	85 millimetre
Product height	73 millimetre
Product width	35 millimetre
Product weight	0.24 kilogram
Compliances	RoHS conform
Product Tradename	xPole - PLS6/M
Product Type	MCB
Product Sub Type	None
Application	Switchgear for residential and commercial applications xPole - Switchgear for residential and commercial applications
Number of poles	Two-pole
Number of poles (total)	2
Number of poles (protected)	2
Tripping characteristic	D
Release characteristic	D
Amperage Rating	6 A
Туре	Miniature circuit breaker PLS6
Voltage type	AC
Rated operational voltage (Ue) - max	400 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Frequency rating - min	50 Hz
Frequency rating - max	60 Hz
Rated switching capacity (IEC/EN 60898-1)	6 kA
Rated short-circuit breaking capacity (EN 60898) at 230 V	6 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	6 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	0 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	0 kA
Overvoltage category	
Pollution degree	2
Width in number of modular spacings	2
Built-in depth	70.5 mm
Degree of protection	IP20
Connectable conductor cross section (solid-core) - min	1 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max	25 mm <sup>2</sup>
Connectable conductor cross section (solid core) - min	1 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max	25 mm <sup>2</sup>
Rated operational current for specified heat dissipation (In)	6 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	2.9 W
Static heat dissipation, non-current-dependent	0 W

Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	75 °C
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.
Current limiting class	3
Features	Additional equipment possible
Special features	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
Used with	PLS6 Miniature circuit breaker

## **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) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Release characteristic   Image: Sector of poles (total)   Image: Sector of poles (total)     Number of poles (total)   Image: Sector of poles (total)   Image: Sector of poles (total)     Number of poles (total)   Image: Sector of poles (total)   Image: Sector of poles (total)     Number of poles (total)   Image: Sector of poles (total)   Image: Sector of poles (total)     Number of poles (total)   Image: Sector of poles (total)   Image: Sector of poles (total)     Rated current   Image: Sector of poles (total)   Image: Sector of poles (total)     Rated short-sicuit breaking capacity Icn according to EN 60898 at 230 V   Image: Sector of Poles (total)   Image: Sector of Poles (total)     Notage type   Image: Sector of Poles (total)   Image: Sector of Poles (total)   Image: Sector of Poles (total)     Rated short-sicuit breaking capacity Icn according to EN 60898 at 400 V   Image: Sector of Poles (total)   Image: Sector of Poles (total)     Rated short-sicuit breaking capacity Icn according to IEC 60947-2 at 230 V   Image: Sector of Poles (total)   Image: Sector of Poles (total)     Rated short-sicuit breaking capacity Icn according to IEC 60947-2 at 230 V   Image: Sector of Poles (total)   Image: Sector of Poles (total)     Rated short-sicuit breaking capacity Icn according to IEC 60947-2 at 230 V   Image: Sector of Poles (total)   Image: S	(eci@ss10.0.1-27-14-19-01 [AAD900014])		
Number of poles (total)     Particular	Built-in depth	mm	70.5
Number of protected poles     Image: Protected poles	Release characteristic		D
Rated current   A   6     Rated current   A   0     Rated voltage   V   40     Rated insulation voltage Uinp   V   40     Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V   KA   6     Voltage type   A   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V   KA   6     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 240 V   KA   0     Frequency   KA   0   0     Frequency   KA   50-60   60     Current limiting class   So   60   60     Frequency   So   60   60   60     Ruted short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V   No   60   60	Number of poles (total)		2
Rated voltage   V   400     Rated insulation voltage Ui   V   400     Rated insulation voltage Uimp   V   400     Rated inpulse withstand voltage Uimp   KV   400     Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V   KA   6     Voltage type   KA   6   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6   6     Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V   KA   6   6     Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V   KA   0   6     Frequency   KA   0   6   6     Frequency   KA   50 - 60   6   6     Current limiting class   So - 60   6   6   6     Frequency   So - 60   50 - 60	Number of protected poles		2
Rated insulation voltage Ui   V   440     Rated inpulse withstand voltage Uimp   KV   4     Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V   KA   6     Voltage type   AC   AC     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     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     Frequency   KA   0   0     Frequency   KA   0   0     Current limiting class   So 60   0   0     Fue ueint installation   KA   0   0	Rated current	А	6
Rated impulse withstand voltage Uimp   KV   kV   4     Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V   KA   6     Voltage type   KA   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V   KA   6     Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V   KA   0     Frequency   KA   0   6     Current limiting class   SO 60   6   6     Fush-mounted installation   KM   No   6	Rated voltage	V	400
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V   KA   6     Voltage type   AC     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   KA   6     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   KA   0   0     Current limiting class   S0 - 60   3   0     Fush-mounted installation   Mo   Mo   Mo	Rated insulation voltage Ui	V	440
Voltage type   AC     Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   kA   6     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   KA   0   0     Current limiting class   SO 60   0   0     Fush-mounted installation   So 60   0   0	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 6   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 KA 0   Current limiting class 50 - 60   Functional and the statistic of the stati	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	6
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 SO SO   Flush-mounted installation Image: Solution of the so	Voltage type		AC
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 MO	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	6
Frequency Hz 50 - 60   Current limiting class 3   Flush-mounted installation Image: Constant of the second secon	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	0
Current limiting class 3   Flush-mounted installation Mo	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	0
Flush-mounted installation No	Frequency	Hz	50 - 60
	Current limiting class		3
Concurrently switching neutral conductor No	Flush-mounted installation		No
	Concurrently switching neutral conductor		No

Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		2
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm	nm <sup>2</sup> 1 - 25
Connectable conductor cross section solid-core	mm	1 - 25
Explosion-proof		No