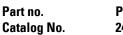
## DATASHEET - PLSM-B1,6/3-MW



Miniature circuit breaker (MCB), 1,6A, 3 p, type B characteristic



PLSM-B1,6/3-MW 242435



## **Delivery program**

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Tripping characteristic B   Analization I Selection   Analization I Selection   Rand current In In   Rand current In In   Rand current In In   Prividue tange In In   Prividue tange In In   Prividue tange In In   Rand current In In   Rand current (specific tange tanget	Basic function			Miniature circuit-breakers
ApplicationImageSwitchgaar for residential and commercial applicationsRind commercial copiestity according to IECEN 00086-1ImageImageRend workshing coparity according to IECEN 00086-1ImageImageRend workshing coparity according to IECEN 00086-1ImageImageRend workshing coparity according to IECEN 00086-1ImageImageRend or Workshing and ImageImageIm	Number of poles			3 pole
Rased current In A 18   Rased current In In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Product range PISM In In   Electrical Electrical In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00088-1 In In In   Rased avaitubing capacity according to EECEN 00082 In In In   Rased avaitubing capacity according to EECEN 00082 In In In   Doarding ambient tapacity according to ECEN 00002 In In In	Tripping characteristic			В
Rated switching engacity according to IEUCH 00099 1 In RAM RAM   Product range RAM RAM RAM   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switching engacity according to IEUCH 00099 1 In In   Rated switchin	Application			Switchgear for residential and commercial applications
Product range   PLSM     Bade down provide according to IEC/EN 6000-1   Image: Second provide according to IEC/EN 6000-1     Bade down provide according to IEC/EN 6000-1   Image: Second provide according to IEC/EN 6000-1     Bated dosproverification as per IEC/EN 60103   Image: Second provide according to IEC/EN 60103     Bated dosproverification as per IEC/EN 60103   Image: Second provide according to IEC/EN 60103     Bated dosproverification as per IEC/EN 60103   Image: Second provide according to IEC/EN 60103     Bated dosproverification per polo. current-dependent   Pend   W0   Image: Second provide according to IEC/EN 60103     Goperating mission per polo. current dependent   Pend   W0   Image: Second provide according to IEC/EN 60103     Goperating mission temperature max.   Pend   W0   Image: Second provide according to IEC/EN 60103     IO2 Second provide according to IEC/EN 6000   Pend   W0   Image: Second provide according to IEC/EN 60103     IO2 Second provide to Image: Second provide according to IEC/EN 60103   Pend   W0   Image: Second provide according to IEC/EN 60103     IO2 Second provide to Image: Second provide according to IEC/EN 60103   Pend   WE   Pend   WE     IO2 Second provide to Image: S	Rated current	I <sub>n</sub>	А	1.6
Control     Line     Name     Instruments       Read operational current for specified baset dissipation     Instruments     Instruments     Instruments       Read operational current for specified baset dissipation     Instruments     Instruments     Instruments       Equipments head dissipation current-dependent     Perior     W     Instruments     Instruments       Equipments head dissipation current-dependent     Perior     W     Instruments     Instruments       Equipments head dissipation current-dependent     Perior     W     Instruments     Instruments       Equipments head dissipation, current-dependent     Perior     W     Instruments     Instruments       Operating ambient temperature max.     Perior     W     Instruments     Instruments       ID22 Strength of materials and parts     Instruments     Instruments     Instruments     Instruments       ID22 Strength of materials and parts     Instruments     Instruments     Instruments     Instruments       ID22 Strength of materials and parts     Instruments     Instruments     Instruments     Instruments       ID22 Strength of materinds on functing materinals to normal heat	Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	kA	10
Control     Line     Name     Instruments       Read operational current for specified baset dissipation     Instruments     Instruments     Instruments       Read operational current for specified baset dissipation     Instruments     Instruments     Instruments       Equipments head dissipation current-dependent     Perior     W     Instruments     Instruments       Equipments head dissipation current-dependent     Perior     W     Instruments     Instruments       Equipments head dissipation current-dependent     Perior     W     Instruments     Instruments       Equipments head dissipation, current-dependent     Perior     W     Instruments     Instruments       Operating ambient temperature max.     Perior     W     Instruments     Instruments       ID22 Strength of materials and parts     Instruments     Instruments     Instruments     Instruments       ID22 Strength of materials and parts     Instruments     Instruments     Instruments     Instruments       ID22 Strength of materials and parts     Instruments     Instruments     Instruments     Instruments       ID22 Strength of materinds on functing materinals to normal heat	Product range			PLSM
Electrical   U   K   K   K     Rate description as per IEC/EN 61439   Image: Comparison of the Compari				
Electrical   U   K   K   K     Rate description as per IEC/EN 61439   Image: Comparison of the Compari	Technical data			
Descing verification as per IEC/EN 61439       Technical data for design verification     In     A       Reted operational current or specified heat dissigntion     In     A     16       Heat dissipation per polo, current-dependent     Pvd     W     0       Equipment heat dissipation, current-dependent     Pvd     W     0       Brait dissipation current-dependent     Pvd     W     0       Operating anishent temperature min.     C     25     25       Operating anishent temperature min.     C     7C     75       ID22 Corresion resistance     V     Vertex tandard's requirements.     Vertex tandard's requirements.       102.2 Verification of resistance of insulating materials to normal heat and free day temperature discipanterials to anomal heat and free day temperature discipanterials and parts     Vertex the product standard a requirements.       102.2 Verification of resistance of insulating materials to anomal heat and free day temperature discipan materials to anomal heat and free day temperature discip				
Technical data for design verification     In     A     A     Is       Reted operational current for specified heat dissipation     In     B     Is     Is       Reted operational current for specified heat dissipation, current-dependent     Paid     W     Is     Is       Equipment heat dissipation, current-dependent     Paid     W     Is     Is     Is       Operating ambient temperature max.     Pess     W     Is     Is<	Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	kA	10
Technical data for design verification     In     A     A     Is       Reted operational current for specified heat dissipation     In     B     Is     Is       Reted operational current for specified heat dissipation, current-dependent     Paid     W     Is     Is       Equipment heat dissipation, current-dependent     Paid     W     Is     Is     Is       Operating ambient temperature max.     Pess     W     Is     Is<				
Reted operational current for specified heat dissipation     I,     A     1.5       Heat dissipation per pole, current-dependent     Poid     W     0       Equipment heat dissipation, current-dependent     Poid     W     0       Static heat dissipation, current-dependent     Poid     W     0       Operating ambient temperature min.     Poids     W     0       Operating ambient temperature min.     Poids     V     0       10.2 Strongth of materials and parts     Poids     V     0       10.2 Strongth of materials and parts     Poids     Meets the product standard's requirements.       10.2.3 Verification of termal stability of enclosures     No     Meets the product standard's requirements.       10.2.3 Verification of resistance of insulating materials to normal heat     Meets the product standard's requirements.       10.2.3 Verification of resistance of insulating materials to abormal heat     Meets the product standard's requirements.       10.2.3 Verification of ASSEMBLES     Does not apply, since the entire switchgear needs to be evaluated.       10.2.3 Verification of ASSEMBLES     Does not apply, since the entire switchgear needs to be evaluated.       10.2.3 Incruitin and citentris forck     Meets the product standar	Design verification as per IEC/EN 61439			
Heat dissipation per pole, current-dependent     Poid     W     0       Equipment heat dissipation, current-dependent     Poid     W     0       Static heat dissipation cancertort-dependent     Poid     W     0       Operating ambient temperature min.     Poid     W     0       Operating ambient temperature max.     Poid     Poid     Poid       ILECEN 61489 design verification     Poid     Poid     Poid     Poid       ILECEN 61489 design verification     Poid     Poid     Poid     Poid     Poid       ILECEN 61489 design verification     Poid     Poid <td< td=""><td>Technical data for design verification</td><td></td><td></td><td></td></td<>	Technical data for design verification			
Equipment heat dissipation, current-dependent     Paid     W     74       Static heat dissipation, current-dependent     Paids     W     0       Operating ambient temporature min.     °C     25       Operating ambient temporature max.     °C     76       ECE/06 1432 design varification     76     75       102.2 Strength of materials and parts     °C     76       102.2 Corrosion resistance     F     F       102.2 Corrosion resistance     F     F       102.2 Verification of thermal stability of enclosures     F     Meets the product standard's requirements.       102.3.1 Verification or feisstance of insulating materials to normal heat     F     Meets the product standard's requirements.       102.3.2 Verification or feisstance of insulating materials to abnormal heat     F     Meets the product standard's requirements.       102.3.2 Verification or feisstance of insulating materials to abnormal heat     F     Meets the product standard's requirements.       102.3.2 Verification or feisstance of insulating materials to abnormal heat     F     Meets the product standard's requirements.       102.3.2 Verification or feisstance of insulating materials to abnormal heat     F     Meets the product standard's requirements.	Rated operational current for specified heat dissipation	l <sub>n</sub>	А	1.6
Static heat dissipation, non-turrent-dependent     Person     W     0       Heat dissipation capacity     Paiss     W     0       Operating ambient temperature min.     *C     -25       Operating ambient temperature max.     *C     70       IDE/KB 1433 design verification     *C     75       102.5 trength of materials and parts     *C     Meats the product standard's requirements.       102.2 Corrosion resistance     102.31 Verification of thermal stability of enclosures     Meats the product standard's requirements.       102.3.2 Verification of thermal stability of enclosures     Meats the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meats the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-turrent-dependent     Person     W     0       Heat dissipation capacity     Paiss     W     0       Operating ambient temperature min.     *C     -25       Operating ambient temperature max.     *C     70       IDE/KB 1433 design verification     *C     75       102.5 trength of materials and parts     *C     Meats the product standard's requirements.       102.2 Corrosion resistance     102.31 Verification of thermal stability of enclosures     Meats the product standard's requirements.       102.3.2 Verification of thermal stability of enclosures     Meats the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meats the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.       102.3 Las distance to tura-violet (UV) radiation     *Meats the product standard's requirements.	Equipment heat dissipation, current-dependent	Pvid	w	7.4
Heat dissipation capacity     Paiss     W     O       Operating ambient temperature min.     25     25       Operating ambient temperature max.     70     75       ID2 Strength of materials and parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials and parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials and parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials and parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials and parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials and parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials and parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials no parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials no parts     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials to abnormal heat     Inear, per +1 °C, results in a 0.5% reduction of current carrying capacity       ID2 Strength of materials to abno				
Operating ambient tamperature min.     -25       Operating ambient temperature max.     *C     -25       EC/EN 61439 design verification     *C     70       10.2 Strength of materials and parts     *C     *C       10.2 Strength of materials and parts     *C     *C       10.2.2 Corresion resistance     Meets the product standard's requirements.     *C       10.2.3 Verification of tremal stability of enclosures     *C     *C     *C       10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal idectric effects     *C     *C     *C       10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal idectric effects     *C     *C     *C     *C       10.2.4 Resistance to ultra-violet (UV) radiation     *C     *C <td< td=""><td></td><td></td><td></td><td></td></td<>				
Operating ambient temperature max.     10     75       Image: period of materials and parts     Image: period of materials and parts     Image: period of materials and parts       102.2 Corrosion resistance     Meets the product standard's requirements.     Image: period of materials and parts       102.3.1 Verification of thermal stability of enclosures     Meets the product standard's requirements.     Image: period of materials to normal heat       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.3.1 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.4 Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       102.5 Lifting     Does not apply, since the entire switchgear needs to be evaluated.       102.5 Inscriptions     Meets the product standard's requirements.       103.0 Begree of protection of ASSEMBLIES     Does not apply, since the entire switchgear needs to be evaluated.       104.1 Clearances and creepage distances     Meets the panel builder's responsibility. <td></td> <td>r diss</td> <td></td> <td></td>		r diss		
IndexInter, per 41 °C, results in a 5.5% reduction of current carrying capacityIEC.EN 61439 design verificationInter, per 41 °C, results in a 5.5% reduction of current carrying capacityIEC.EN 61439 design verificationInter, per 41 °C, results in a 5.5% reduction of current carrying capacityIEC.EN 61439 design verificationInter, per 41 °C, results in a 5.5% reduction of current carrying capacityIEC.EN 61439 design verificationInter, per 41 °C, results in a 5.5% reduction of current carrying capacityIEC.2 Corrosion resistanceMeets the product standard's requirements.IEC.2 Corrosion resistance of insulating materials to normal heatMeets the product standard's requirements.IEC.2 SU verification of resistance of insulating materials to normal heatMeets the product standard's requirements.IEC.2 SU verification of resistance of insulating materials to normal heatMeets the product standard's requirements.IEC.2 SU verification of resistance of insulating materials to normal heatMeets the product standard's requirements.IEC.2 SU verification of verificationMeets the product standard's requirements.IEC.2 SU verification of verificationDees not apply, since the entire switchgear needs to be evaluated.IEC.2 SU verification of ASSEMBLIESDees not apply, since the entire switchgear needs to be evaluated.IEE.2 SU verification of switching devices and componentsDees not apply, since the entire switchgear needs to be evaluated.IEE.2 SU verification of switching devices and componentsDees not apply, since the entire switchgear needs to be evaluated.IEE.2 SU verification of everification deviching devices and component				
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10.11 Short-circuit rating   Image: Constraint of the state of th	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
	10.10 Temperature rise			
	10.11 Short-circuit rating			

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 7.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installatio (ecl@ss10.0.1-27-14-19-01 [AAB905014])	n, device / Miniature cir	rcuit breaker system (MCB) / Miniature circuit breaker (MCB)
Release characteristic		В
Number of poles (total)		3
Number of protected poles		3
Rated current	А	1.6
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	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
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		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		3
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
Connectable conductor cross section solid-core	mm <sup>2</sup>	1 - 25