DATASHEET - PLS6-B63/2-MW



Miniature circuit breaker (MCB), 63A, 2p, type B characteristic

Part no. PLS6-B63/2-MW Catalog No. 242860



Delivery program

| Basic function | | | Miniature circuit-breakers |
|--|-----------------|----|--|
| Number of poles | | | 2 pole |
| Tripping characteristic | | | В |
| Application | | | Switchgear for residential and commercial applications |
| Rated current | In | Α | 63 |
| Rated switching capacity according to IEC/EN 60898-1 | I _{cn} | kA | 6 |
| Product range | | | PLS6 |

Technical data

Electrical

| native switching capacity according to 120/214 00000 1 | Rated switching capacity according to IEC/EN 60898-1 | I _{cn} | kA | 6 |
|--|--|-----------------|----|---|
|--|--|-----------------|----|---|

Design verification as per IEC/EN 61439

| provide heat dissipation data for the devices. | Design verification as per IEC/EN 61439 | | | |
|--|--|-------------------|----|--|
| Heat dissipation, current-dependent P _{vid} W 11.5 Static heat dissipation, current-dependent P _{vid} W 11.5 Static heat dissipation, current-dependent P _{vid} W 11.5 Static heat dissipation, current-dependent P _{vid} W 0 Disparating ambient temperature min. C 2-25 Operating ambient temperature max. C 70 Deparating ambient temperature max. C 75 Ilinear, per +1 **C, results in a 0.5% reduction of current carrying capacity EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Verification of thermal stability of enclosures 10.2.3 Verification of resistance of insulating materials to normal heat and fire due to internal elloctric effects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal elloctric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Elliting 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 10.3 Degree of protection of ASSEMBLES 10.3 Portection against electric shock 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 Language withstand voltage 10.9 A Testing of enclosures made of insulating material 10.1 Temperature rise 10.1 Short-circuit rating 10.1 Short-circuit rating 10.1 Short-circuit rating 10.1 Short-circuit rating | Fechnical data for design verification | | | |
| Equipment heat dissipation, current-dependent Pris W 0 0 Static heat dissipation, non-current-dependent Pris W 0 0 Operating ambient temperature min. C 2-5 Operating ambient temperature mex. C 2-5 To 75 Imac, per +1 °C, results in a 0.5% reduction of current carrying capacity EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of teristence of insulating materials to normal heat and fire due to internal electric effects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (IV) radiation 10.2.5 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.3 Degree of protection of ASSEMBLIES 10.4 C 2-5 Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Power-frequency electric temperature rise calculation. Eato provide heat dissipation data for the devices. 10.9 Power-frequency electric temperature rise calculation. Eato provide heat dissipation data for the devices. 10.11 Short-circuit rating | Rated operational current for specified heat dissipation | In | Α | 63 |
| Static heat dissipation, non-current-dependent Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature min. Operating ambient temperature max. **C | Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature min. Operating ambient temperature max. **C*** C*C** 75 linear, per +1 °C, results in a 0.5% reduction of current carrying capacity EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 Verification of thermal stability of enclosures 10.2.3 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Machanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.9 Insulation properties 10.9 Insulation properti | Equipment heat dissipation, current-dependent | P _{vid} | W | 11.5 |
| Operating ambient temperature min. Operating ambient temperature max. ***C*** 75 Innear, per +1 **C, results in a 0.5% reduction of current carrying capacity CCEN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electric circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Insulation properties 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9 Insulation properties 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.1 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.10 Temperature rise 10.11 Short-circuit rating 10.10 Temperature rise 10.11 Short-circuit rating | Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Operating ambient temperature max. CC 75 linear, per +1 °C, results in a 0.5% reduction of current carrying capacity Core Core | Heat dissipation capacity | P _{diss} | W | 0 |
| C/EN 61439 design verification | Operating ambient temperature min. | | °C | -25 |
| ### EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3. Degree of protection of ASSEMBLIES 10.3. Degree of protection of ASSEMBLIES 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.1 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise The panel builder's responsibility. 10.9.1 Insulation properties The panel builder's responsibility. 10.9.1 The panel builder's responsibility. 10.9.1 The panel builder's responsibility. 10.9.1 Temperature rise The panel builder's responsibility. The specifications for the switchgear. | Operating ambient temperature max. | | °C | 75 |
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| | 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 observed. |

| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
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| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

| circuit breakers and fuses (Edubuozu) / Miniature circuit breaker (MCB) (ECU00042) | |
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Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (pc)(@ss10.01-27-14-19-01 [AAR005014])

| Release characteristic | | В |
|--|-----------------|-----------------------|
| Number of poles (total) | | 2 |
| Number of protected poles | | 2 |
| Rated current | А | 63 |
| 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 | | 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 | | 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 | n ² 1 - 25 |
| Connectable conductor cross section solid-core | mm ² | n ² 1 - 25 |