

Part no. Article no.

Catalog No.

P-SOL30 120935 P-SOL30



Delivery programme

| | | Switchgear for photovoltaic systems |
|-----------------|------------------------------|--|
| | | DC switch-disconnectors |
| Ue | V | 1000 |
| | | 2 |
| | | 2 pole |
| l _e | А | 30 |
| | | open |
| | | |
| | | |
| l _e | А | 30 |
| | | 2 pole |
| U _e | V | 1000 |
| | | yes |
| | | IEC/EN 60 947-3 UL-508, TÜV-certified |
| Operations | | 100000 |
| | Operation | n\$0000 |
| | Ops/h | 120 |
| | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| | | |
| | °C | -25 - +60 |
| | | As required |
| | | |
| | | 58 |
| | | 93 |
| | 11111 | 76 |
| | | 35 mm |
| | kg | 0.32 |
| | | |
| | mm ² | 1 x (1 - 6) 2 x (1 - 6) |
| | AWG | 18 - 14 |
| I _{cw} | kA | 0.36 |
| I _{cm} | kA | 0.32 |
| | mΩ | 5 |
| | Ie Ue Ue Operations | Ie A Ie A Ie A Ue V Operations Operation Operations Operation Ie Manual Arrows Operations Manual Arrows Ie Manual Arrows I |

Design verification as per IEC/EN 61439

| • | | | |
|--|-------------------|----|-----|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | А | 30 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 4.5 |
| 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 | 60 |
| IEC/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 6.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

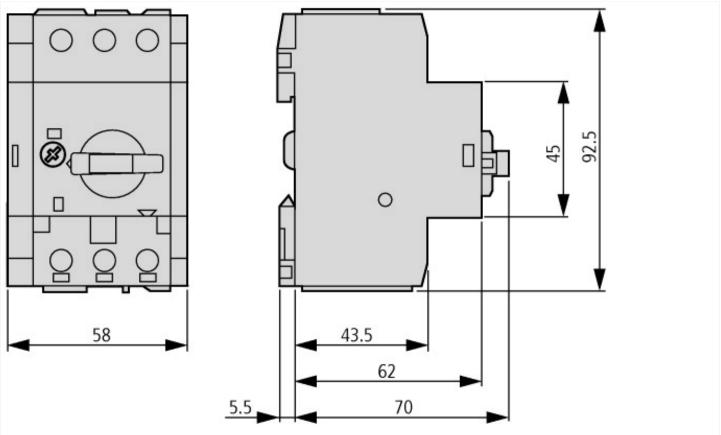
| Low-voltage industrial components (EG000017) / Switch disconnector (EC000216) | | | |
|--|----|--|--|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010]) | | | |
| Version as main switch | | No | |
| Version as maintenance-/service switch | | No | |
| Version as safety switch | | No | |
| Version as emergency stop installation | | No | |
| Version as reversing switch | | No | |
| Max. rated operation voltage Ue AC | V | 0 | |
| Rated operating voltage | V | 1000 - 1000 | |
| Rated permanent current lu | А | 30 | |
| Rated permanent current at AC-21, 400 V | А | 0 | |
| Rated operation power at AC-3, 400 V | kW | 0 | |
| Rated short-time withstand current lcw | kA | 0.36 | |
| Rated operation power at AC-23, 400 V | kW | 0 | |
| Switching power at 400 V | kW | 30 | |
| Conditioned rated short-circuit current Iq | kA | 0 | |
| Number of poles | | 2 | |
| Number of auxiliary contacts as normally closed contact | | 0 | |
| Number of auxiliary contacts as normally open contact | | 0 | |
| Number of auxiliary contacts as change-over contact | | 0 | |
| Motor drive optional | | No | |
| Motor drive integrated | | No | |
| Voltage release optional | | Yes | |
| Device construction | | Built-in device fixed built-in technique | |
| Suitable for ground mounting | | Yes | |
| Suitable for front mounting 4-hole | | No | |
| Suitable for front mounting center | | No | |
| Suitable for distribution board installation | | Yes | |
| | | | |

| Suitable for intermediate mounting | Yes |
|---|---------------|
| Colour control element | Black |
| Type of control element | Turn button |
| Interlockable | No |
| Type of electrical connection of main circuit | Clamp bracket |
| Degree of protection (IP), front side | IP20 |
| | |
| Annrovals | |

Approvals

| North America Certification | Request filed for UL and CSA |
|--------------------------------------|------------------------------|
| Specially designed for North America | No |
| | |

Dimensions



Additional product information (links)

Motor starters and "Special Purpose Ratings" for the North American market

Busbar Component Adapters for modern Industrial control panels

http://www.moeller.net/binary/ver_techpapers/ver953en.pdf

http://www.moeller.net/binary/ver_techpapers/ver960en.pdf