

FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S0, 10...16A, AC 110/120V 50/60HZ SCREW TERMINAL FOR DIN RAIL MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)



| | |
|--|---|
| Product brand name | SIRIUS |
| Product designation | non-fused load feeders 3RA2 |
| Design of the product | direct starter |
| Manufacturer's article number | |
| <ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied link module | 3RT2026-1AK60 3RV2021-4AA10 3RA2921-1AA00 |

| General technical data | |
|---|--------------|
| Size of the circuit-breaker | S0 |
| Size of load feeder | S0 |
| Product extension | |
| <ul style="list-style-type: none"> • Auxiliary switch | Yes |
| Insulation voltage | |
| <ul style="list-style-type: none"> • with degree of pollution 3 rated value | 690 V |
| Degree of pollution | 3 |
| Surge voltage resistance rated value | 6 kV |
| Protection class IP | |
| <ul style="list-style-type: none"> • on the front • of the terminal | IP20 IP00 |

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|--|-------------|
| Shock resistance | |
| <ul style="list-style-type: none"> • acc. to IEC 60068-2-27 | 6g / 11 ms |
| Mechanical service life (switching cycles) | |
| <ul style="list-style-type: none"> • of contactor typical | 10 000 000 |
| Type of assignment | 2 |
| Protection against electrical shock | finger-safe |

Main circuit

| | |
|---|--------------------------------|
| Number of poles for main current circuit | 3 |
| Design of the switching contact | electromechanical |
| Adjustable pick-up value current of the current-dependent overload release | 11 ... 16 A |
| Operating voltage | |
| <ul style="list-style-type: none"> • rated value | 690 V |
| <ul style="list-style-type: none"> • at AC-3 rated value maximum | 690 V |
| Operating frequency rated value | 50 ... 60 Hz |
| Operating current | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value | 15.5 A |
| Operating power | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value — at 500 V rated value — at 690 V rated value | 7 500 W 7 500 W 11 000 W |

Control circuit/ Control

| | |
|--|---------|
| Control supply voltage at AC | |
| <ul style="list-style-type: none"> • at 50 Hz rated value | 110 V |
| <ul style="list-style-type: none"> • at 60 Hz rated value | 120 V |
| Apparent holding power of magnet coil at AC | 9.8 V·A |

Protective and monitoring functions

| | |
|--|----------------------|
| Trip class | CLASS 10 |
| Design of the overload release | thermal (bimetallic) |
| Response value current | |
| <ul style="list-style-type: none"> • of instantaneous short-circuit trip unit | 208 A |

UL/CSA ratings

| | |
|---|--------------|
| Full-load current (FLA) for three-phase AC motor | |
| <ul style="list-style-type: none"> • at 480 V rated value | 15.2 A |
| <ul style="list-style-type: none"> • at 600 V rated value | 12.2 A |
| Yielded mechanical performance [hp] | |
| <ul style="list-style-type: none"> • for single-phase AC motor <ul style="list-style-type: none"> — at 110/120 V rated value — at 230 V rated value | 1 hp 2 hp |

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|----------------------------|-------|
| • for three-phase AC motor | |
| — at 200/208 V rated value | 3 hp |
| — at 220/230 V rated value | 5 hp |
| — at 460/480 V rated value | 10 hp |
| — at 575/600 V rated value | 10 hp |

Short-circuit protection

| | |
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| Product function Short circuit protection | Yes |
| Design of the short-circuit trip | magnetic |
| Conditional short-circuit current (I_q) | |
| • at 690 V acc. to IEC 60947-4-1 rated value | 2 000 A |
| • at 400 V acc. to IEC 60947-4-1 rated value | 153 000 A |
| • at 500 V acc. to IEC 60947-4-1 rated value | 5 000 A |

Installation/ mounting/ dimensions

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| Mounting position | vertical |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail |
| Height | 193.1 mm |
| Width | 45 mm |
| Depth | 97.1 mm |
| Required spacing | |
| • for grounded parts | |
| — forwards | 10 mm |
| — Backwards | 0 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 10 mm |
| — Backwards | 0 mm |
| — upwards | 30 mm |
| — downwards | 10 mm |
| — at the side | 9 mm |

Connections/Terminals

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| Type of electrical connection | |
| • for main current circuit | screw-type terminals |
| Type of connectable conductor cross-sections | |
| • for main contacts | |
| — stranded | 1 ... 10 mm ² , 2x (2.5 ... 6 mm ²) |
| • at AWG conductors for main contacts | 2x (16 ... 12), 2x (14 ... 8) |
| Connectable conductor cross-section for main contacts | |
| • finely stranded with core end processing | 1 ... 6 mm ² |