

Non-reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 5.5-22A 240VAC 50HZ / 277VAC 60HZ coil Combination type 30Amp fusible disconnect 30Amp / 250V fuse clip Encl NEMA type 4X 316 S-steel Water/dust tight non-corrosive Extra-wide enclosure



Figure similar

| | |
|-------------------------|---|
| Product brand name | Class 17 |
| Design of the product | Non-reversing motor starter with fusible disconnect |
| Special product feature | ESP200 overload relay |

| General technical data | |
|--|--------------------------|
| Weight [lb] | 48 lb |
| Height x Width x Depth [in] | 24 × 20 × 8 in |
| Protection against electrical shock | NA for enclosed products |
| Installation altitude [ft] at height above sea level maximum | 6560 ft |
| Ambient temperature [°F] | |
| • during storage maximum | 149 °F |
| • during operation maximum | 104 °F |
| Ambient temperature | |
| • during storage maximum | 65 °C |
| • during operation maximum | 40 °C |
| Country of origin | USA |

Horsepower ratings

| | |
|--|------|
| Yielded mechanical performance [hp] for three-phase AC motor | |
| <ul style="list-style-type: none"> • at 200/208 V rated value | 3 hp |
| <ul style="list-style-type: none"> • at 220/230 V rated value | 3 hp |
| <ul style="list-style-type: none"> • at 460/480 V rated value | 0 hp |
| <ul style="list-style-type: none"> • at 575/600 V rated value | 0 hp |

Contactors

| | |
|---|------------------------|
| Size of contactor | NEMA controller size 1 |
| Number of NO contacts for main contacts | 3 |
| Operating voltage for main current circuit at AC at 60 Hz maximum | 600 V |
| Operating current at AC at 600 V rated value | 27 A |
| Mechanical service life (switching cycles) of the main contacts typical | 10000000 |

Auxiliary contact

| | |
|---|-------------------------------------|
| Number of NC contacts at contactor for auxiliary contacts | 0 |
| Number of NO contacts at contactor for auxiliary contacts | 1 |
| Number of total auxiliary contacts maximum | 8 |
| Contact rating of auxiliary contacts of contactor according to UL | 10A@600VAC (A600), 5A@600VDC (P600) |

Coil

| | |
|--|--------------|
| Type of voltage of the control supply voltage | AC |
| Control supply voltage | |
| <ul style="list-style-type: none"> • at AC at 50 Hz rated value | 240 V |
| <ul style="list-style-type: none"> • at AC at 60 Hz rated value | 277 V |
| Holding power at AC minimum | 8.6 W |
| Apparent pick-up power of magnet coil at AC | 218 V·A |
| Apparent holding power of magnet coil at AC | 25 V·A |
| Operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1 |
| Percental drop-out voltage of magnet coil related to the input voltage | 50 % |
| Switch-on delay time | 19 ... 29 ms |
| Off-delay time | 10 ... 24 ms |

Overload relay

| | |
|---|-----|
| Product function | |
| <ul style="list-style-type: none"> • Overload protection | Yes |
| <ul style="list-style-type: none"> • Phase failure detection | Yes |
| <ul style="list-style-type: none"> • Phase unbalance | Yes |
| <ul style="list-style-type: none"> • Ground fault detection | Yes |

| | |
|---|--------------------------------------|
| <ul style="list-style-type: none"> • Test function | Yes |
| <ul style="list-style-type: none"> • External reset | Yes |
| Reset function | Manual, automatic and remote |
| Trip class | Class 5 / 10 / 20 (factory set) / 30 |
| Adjustable pick-up value current of the current-dependent overload release | 5.5 ... 22 A |
| Trip time at phase-loss maximum | 3 s |
| Relative repeat accuracy | 1 % |
| Product feature Protective coating on printed-circuit board | Yes |
| Number of NC contacts of auxiliary contacts of overload relay | 1 |
| Number of NO contacts of auxiliary contacts of overload relay | 1 |
| Operating current of auxiliary contacts of overload relay | |
| <ul style="list-style-type: none"> • at AC at 600 V | 5 A |
| <ul style="list-style-type: none"> • at DC at 250 V | 1 A |
| Contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 1A@250VDC (R300) |
| Insulation voltage | |
| <ul style="list-style-type: none"> • with single-phase operation at AC rated value | 600 V |
| <ul style="list-style-type: none"> • with multi-phase operation at AC rated value | 300 V |

Disconnect Switch

| | |
|--|--------------------|
| Rated response values of switch disconnecter | 30A / 250V |
| Design of fuse holder | Class R fuse clips |
| Operating class of the fuse link | Class R |

Enclosure

| | |
|---|--|
| Degree of protection NEMA rating of the enclosure | NEMA 4X 316 stainless steel enclosure |
| Design of the housing | Dust-tight, watertight & corrosion resistant |

Mounting/wiring

| | |
|--|-----------------------------------|
| Mounting position | vertical |
| Mounting type | Surface mounting and installation |
| Type of electrical connection for supply voltage line-side | Box lug |
| Tightening torque [lbf·in] for supply | 35 ... 35 lbf·in |
| Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded | 1x (14 ... 2 AWG) |
| Temperature of the conductor for supply maximum permissible | 75 °C |
| Material of the conductor for supply | AL or CU |
| Type of electrical connection for load-side outgoing feeder | Screw-type terminals |

| | |
|--|---|
| Tightening torque [lbf-in] for load-side outgoing feeder | 35 ... 35 lbf-in |
| Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded | 1x (14 ... 2 AWG) |
| Temperature of the conductor for load-side outgoing feeder maximum permissible | 75 °C |
| Material of the conductor for load-side outgoing feeder | AL or CU |
| Type of electrical connection of magnet coil | Screw-type terminals |
| Tightening torque [lbf-in] at magnet coil | 5 ... 12 lbf-in |
| Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded | 2x (16 ... 12 AWG) |
| Temperature of the conductor at magnet coil maximum permissible | 75 °C |
| Material of the conductor at magnet coil | CU |
| Type of electrical connection for auxiliary contacts | Screw-type terminals |
| Tightening torque [lbf-in] at contactor for auxiliary contacts | 10 ... 15 lbf-in |
| Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded | 1x (12 AWG), 2x (16 ... 14 AWG), 2x (18 ... 16 AWG) |
| Temperature of the conductor at contactor for auxiliary contacts maximum permissible | 75 °C |
| Material of the conductor at contactor for auxiliary contacts | CU |
| Type of electrical connection at overload relay for auxiliary contacts | Screw-type terminals |
| Tightening torque [lbf-in] at overload relay for auxiliary contacts | 7 ... 10 lbf-in |
| Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded | 2x (20 ... 14 AWG) |
| Temperature of the conductor at overload relay for auxiliary contacts maximum permissible | 75 °C |
| Material of the conductor at overload relay for auxiliary contacts | CU |

Short-circuit current rating

| | |
|---|---|
| Design of the fuse link for short-circuit protection of the main circuit required | 10kA@600V (Class H or K); 100kA@600V (Class R or J) |
| Certificate of suitability | NEMA ICS 2; UL 508; CSA 22.2, No.14 |

Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...)
www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17DUD82XL10>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/US/en/ps/US2:17DUD82XL10>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17DUD82XL10&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:17DUD82XL10/certificate>





D68782001

last modified:

11/15/2019