

Non-reversing motor starter Size 2 Three phase full voltage Solid-state overload relay OLRelay amp range 13-52a 208VAC 60HZ coil Combination type 50Amp circuit breaker Encl NEMA type 4X 316 S-steel Water/dust tight noncorrosive Standard width enclosure



Figure similar

|                         |  |
|-------------------------|--|
| Product brand name      | Class 18 & 26  |
| Design of the product   | Non-reversing motor starter with motor circuit protector |
| Special product feature | ESP200 overload relay                                    |

| General technical data   |                          |
|--|--------------------------|
| Height x Width x Depth [in]  | 24 × 11 × 8 in           |
| Protection against electrical shock  | NA for enclosed products |
| Installation altitude [ft] at height above sea level maximum   | 6560 ft                  |
| Ambient temperature [°F]   |                          |
| <ul style="list-style-type: none"> <li>during storage maximum</li> <li>during operation maximum</li> </ul> | 149 °F<br>104 °F         |
| Ambient temperature  |                          |
| <ul style="list-style-type: none"> <li>during storage maximum</li> <li>during operation maximum</li> </ul> | 65 °C<br>40 °C           |

| Horsepower ratings   |  |
|--|--|
| Yielded mechanical performance [hp] for three-phase AC motor |  |

- at 200/208 V rated value 10 hp
- at 220/230 V rated value 15 hp
- at 460/480 V rated value 25 hp
- at 575/600 V rated value 25 hp

### Contactors

|   |                        |
|---|------------------------|
| Size of contactor   | NEMA controller size 2 |
| 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                            | 45 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                        | 7                                   |
| 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"> <li>• at AC at 60 Hz rated value</li> </ul> | 208 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

|  |                                      |
|--|--------------------------------------|
| 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 | 13 ... 52 A                          |
| Make time with automatic start after power failure maximum                 | 3 s                                  |
| Relative repeat accuracy   | 1 %                                  |
| 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              |                                    |
| • at AC at 600 V   | 5 A                                |
| • 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   |                                    |
| • with single-phase operation at AC rated value                        | 600 V                              |
| • with multi-phase operation at AC rated value                         | 300 V                              |

#### Enclosure

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

#### Motor Circuit Protector (magnetic trip only)

|   |               |
|---|---------------|
| Operating current of motor circuit breaker rated value                    | 50 A          |
| Adjustable pick-up value current of instantaneous short-circuit trip unit | 180 ... 600 A |

#### Mounting/wiring

|   |                                   |
|---|-----------------------------------|
| Mounting position   | Vertical                          |
| Mounting type   | Surface mounting and installation |
| Type of electrical connection for supply voltage line-side  | Box lug                           |
| Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded                  | 1x (10 AWG ... 1/0 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   | Box lug                           |
| Tightening torque [lbf-in] for load-side outgoing feeder  | 45 ... 45 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 short-circuit trip   | Instantaneous trip circuit breaker  |
| Maximum short-circuit current breaking capacity (Icu) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 100 kA<br>100 kA<br>25 kA           |
| 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](http://www.usa.siemens.com/iccatalog)

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18FUF92XD>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:18FUF92XD>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:18FUF92XD&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18FUF92XD&lang=en)

##### Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:18FUF92XD/certificate>





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