



Figure similar

Non-reversing motor starter, Size 2, Single Phase, 2-Pole, Amb. compensate bimetal OLR, Contactor amp rating 45A, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive

|   |  |
|---|--|
| product brand name  | Class 14 & 22                            |
| design of the product   | Full-voltage non-reversing motor starter |
| special product feature   | Dual voltage coil                        |
| <b>General technical data</b>   |  |
| weight [lb]   | 15 lb                                    |
| Height x Width x Depth [in]   | 15 × 12 × 7 in                           |
| touch protection against electrical shock                               | NA for enclosed products                 |
| installation altitude [ft] at height above sea level maximum            | 6560 ft                                  |
| ambient temperature [°F]  |  |
| • during storage  | -22 ... +149 °F                          |
| • during operation  | -4 ... +104 °F                           |
| ambient temperature   |  |
| • during storage  | -30 ... +65 °C                           |
| • during operation  | -20 ... +40 °C                           |
| country of origin   | USA                                      |
| <b>Horsepower ratings</b>   |  |
| yielded mechanical performance [hp] for single-phase AC motor           |  |
| • at 115 V rated value  | 3 hp                                     |
| • at 200/208 V rated value  | 7.5 hp                                   |
| • at 220/230 V rated value  | 7.5 hp                                   |
| <b>Contactor</b>  |  |
| size of contactor   | NEMA controller size 2                   |
| number of NO contacts for main contacts                                 | 2  |
| operating voltage for main current circuit at AC at 60 Hz maximum       | 240 V                                    |
| operational current at AC at 600 V rated value                          | 45 A                                     |
| mechanical service life (operating cycles) of the main contacts typical | 10000000                                 |
| <b>Auxiliary contact</b>  |  |
| 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)      |
| <b>Coil</b>   |  |
| type of voltage of the control supply voltage                           | AC                                       |
| control supply voltage  |  |
| • at AC at 60 Hz rated value  | 110 ... 240 V                            |
| holding power at AC minimum   | 8.6 W                                    |
| apparent pick-up power of magnet coil at AC                             | 218 VA                                   |
| apparent holding power of magnet coil at AC                             | 25 VA                                    |

|  |   |
|--|---|
| 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 %  |
| ON-delay time  | 19 ... 29 ms  |
| OFF-delay time   | 10 ... 24 ms  |
| <b>Overload relay</b>  |   |
| product function   |   |
| • overload protection  | Yes   |
| • test function  | Yes   |
| • external reset   | Yes   |
| reset function   | Manual and automatic                                |
| adjustment range of thermal overload trip unit   | 0.85 ... 1.15                                       |
| number of NC contacts of auxiliary contacts of overload relay  | 1   |
| number of NO contacts of auxiliary contacts of overload relay  | 0   |
| operational current of auxiliary contacts of overload relay  |   |
| • at AC at 600 V   | 5 A   |
| • at DC at 250 V   | 5 A   |
| contact rating of auxiliary contacts of overload relay according to UL   | 5A@600VAC (B600), 5A@250VDC (P300)                  |
| <b>Enclosure</b>   |   |
| degree of protection NEMA rating   | 4X, fiber glass                                     |
| design of the housing  | dustproof, waterproof & resistant to corrosion      |
| <b>Mounting/wiring</b>   |   |
| mounting position  | Vertical  |
| fastening method   | Surface mounting and installation                   |
| type of electrical connection for supply voltage line-side   | Box lug   |
| tightening torque [lbf-in] for supply  | 45 ... 45 lbf-in                                    |
| 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 ... 50 lbf-in                                    |
| 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 cables 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 cables 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  | 5 ... 12 lbf-in                                     |
| type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded | 2x (16 ... 12 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  |
| <b>Short-circuit current rating</b>  |   |
| 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) |
| design of the short-circuit trip   | Thermal magnetic circuit breaker                    |
| maximum short-circuit current breaking capacity (Icu)  |   |
| • at 240 V   | 14 kA   |
| • at 480 V   | 10 kA   |
| • at 600 V   | 10 kA   |
| certificate of suitability   | NEMA ICS 2; UL 508; CSA 22.2, No.14                 |
| <b>Further information</b>   |   |

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=US2:14FP12FA81>

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

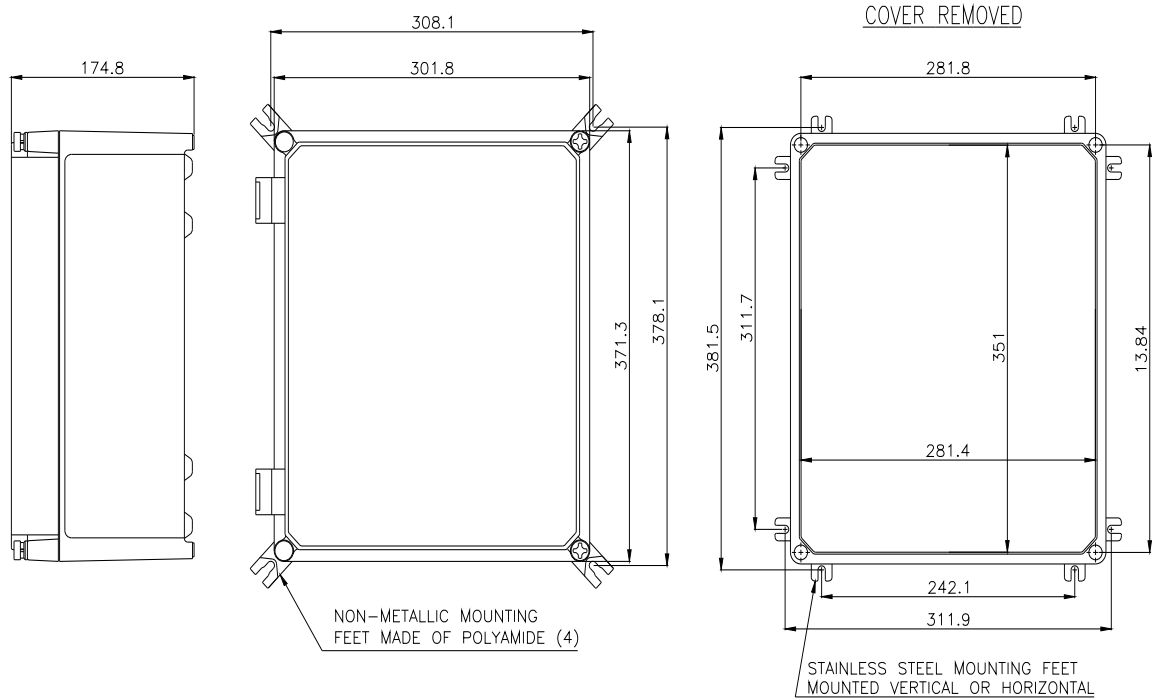
<https://support.industry.siemens.com/cs/US/en/ps/US2:14FP12FA81>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14FP12FA81&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14FP12FA81&lang=en)

Certificates/approvals

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