

Non-reversing motor starter Size 1 Single phase full voltage Solid-state overload relay OLRelay amp range 0.75-3.4A 190-220/220-240V 50/60HZ coil Combination type No enclosure



Figure similar

|  |                             |
|--|-----------------------------|
| Product brand name   | Class 14                    |
| Design of the product  | Non-reversing motor starter |
| Special product feature                                      | ESP200 overload relay       |
| General technical data                                       |                             |
| Weight [lb]  | 3 lb                        |
| Height x Width x Depth [in]                                  | 7.44 × 5.75 × 3.75 in       |
| Protection against electrical shock                          | Not finger-safe             |
| 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  | Mexico                      |
| Horsepower ratings   |                             |

|   |          |
|---|----------|
| Yielded mechanical performance [hp] for single-phase AC motor |          |
| • at 115 V rated value  | 0.125 hp |
| • at 200/208 V rated value                                    | 0.25 hp  |
| • at 220/230 V rated value                                    | 0.25 hp  |

| Contactor   |                        |
|---|------------------------|
| Size of contactor   | NEMA controller size 1 |
| Number of NO contacts for main contacts                                 | 2                      |
| Operating voltage for main current circuit at AC at 60 Hz maximum       | 240 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   |               |
| • at AC at 50 Hz rated value   | 190 ... 220 V |
| • at AC at 60 Hz rated value   | 220 ... 240 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          |     |
| • Overload protection     | Yes |
| • Phase failure detection | Yes |
| • Phase unbalance         | Yes |
| • Ground fault detection  | Yes |
| • Test function           | Yes |

|  |                                      |
|--|--------------------------------------|
| • External reset   | No                                   |
| 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 | 0.75 ... 3.4 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                  | 5 A<br>1 A                           |
| • at AC at 600 V   |                                      |
| • at DC at 250 V   |                                      |
| Contact rating of auxiliary contacts of overload relay according to UL     | 5A@600VAC (B600), 1A@250VDC (R300)   |
| Insulation voltage   | 600 V<br>300 V                       |
| • with single-phase operation at AC rated value                            |                                      |
| • with multi-phase operation at AC rated value                             |                                      |

#### Enclosure

|   |                            |
|---|----------------------------|
| Degree of protection NEMA rating of the enclosure | Open device (no enclosure) |
| Design of the housing                             | NA                         |

#### Mounting/wiring

|   |                                   |
|---|-----------------------------------|
| Mounting position   | Vertical                          |
| Mounting type   | Surface mounting and installation |
| Type of electrical connection for supply voltage line-side  | Screw-type terminals              |
| 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  | 20 ... 24 lbf·in                  |
| Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded | 2 x (14 - 10 AWG)                 |

|  |  |
|--|--|
| Temperature of the conductor for load-side outgoing feeder maximum permissible   | 75 °C  |
| Material of the conductor for load-side outgoing feeder  | 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                           | 2 x (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      | 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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 | 2 x (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) |
| Design of the short-circuit trip   | Thermal magnetic 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> | 14 kA<br>10 kA<br>10 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=US2:14DUB12AG>

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

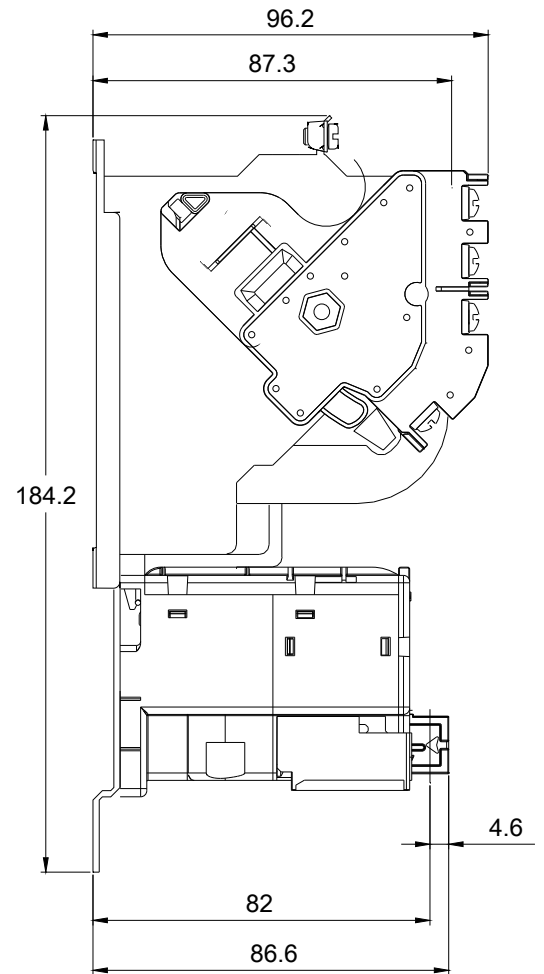
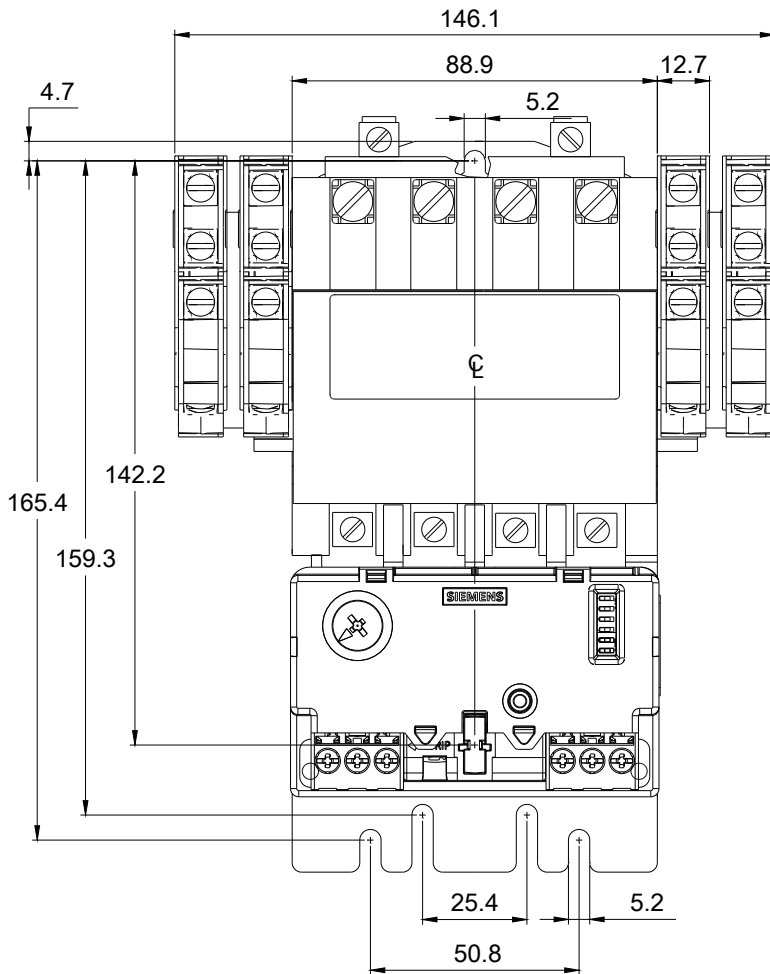
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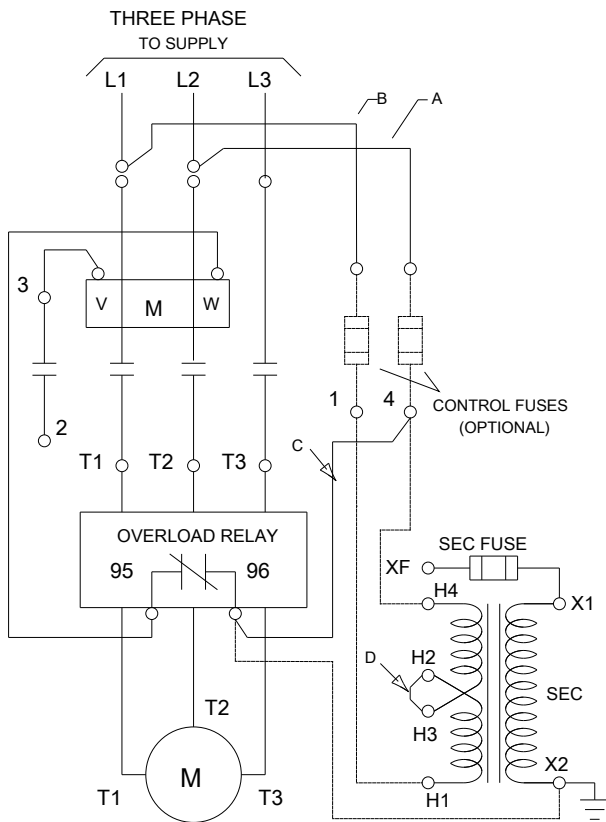
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14DUB12AG&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUB12AG&lang=en)

**Certificates/approvals**

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