



2-speed 3-phase motor starter Size 1 3/4 One winding consequent pole Constant or variable torque Solid-state overload relays Low SPD OLR range 10-40a High SPD OLR range 10-40a 110V 50HZ / 120V 60HZ coil Enclosure NEMA type (open) No enclosure

|                                                                         |                                             |
|-------------------------------------------------------------------------|---------------------------------------------|
| product brand name                                                      | Class 30                                    |
| design of the product                                                   | Full-voltage two speed motor starter        |
| special product feature                                                 | ESP200 overload relay; Half-size controller |
| <b>General technical data</b>                                           |                                             |
| weight [lb]                                                             | 8 lb                                        |
| Height x Width x Depth [in]                                             | 7 × 10 × 3 in                               |
| touch protection against electrical shock                               | Not finger-safe                             |
| 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                                                       | Mexico                                      |
| <b>Horsepower ratings</b>                                               |                                             |
| yielded mechanical performance [hp] for 3-phase AC motor                |                                             |
| • at 200/208 V rated value                                              | 10 hp                                       |
| • at 220/230 V rated value                                              | 10 hp                                       |
| • at 460/480 V rated value                                              | 15 hp                                       |
| • at 575/600 V rated value                                              | 15 hp                                       |
| <b>Contactor</b>                                                        |                                             |
| size of contactor                                                       | Controller half size 1 3/4                  |
| number of NO contacts for main contacts                                 | 6                                           |
| operating voltage for main current circuit at AC at 60 Hz maximum       | 600 V                                       |
| operational current at AC at 600 V rated value                          | 40 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               | 2                                           |
| number of NO contacts at contactor for auxiliary contacts               | 2                                           |
| number of total auxiliary contacts maximum                              | 8                                           |
| contact rating of auxiliary contacts of contactor according to UL       | 345VA@115VAC / 768VA@240VAC                 |
| <b>Coil</b>                                                             |                                             |
| type of voltage of the control supply voltage                           | AC                                          |
| control supply voltage                                                  |                                             |
| • at AC at 50 Hz rated value                                            | 110 V                                       |
| • at AC at 60 Hz rated value                                            | 120 V                                       |
| holding power at AC minimum                                             | 8 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 ... 1      |
| percentual drop-out voltage of magnet coil related to the input voltage  | 50 %         |
| ON-delay time                                                            | 19 ... 29 ms |
| OFF-delay time                                                           | 10 ... 24 ms |

#### Overload relay

|                                                                        |                                      |
|------------------------------------------------------------------------|--------------------------------------|
| product function                                                       |                                      |
| • overload protection                                                  | Yes                                  |
| • phase failure detection                                              | Yes                                  |
| • asymmetry detection                                                  | 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 current response value current of overload relay            |                                      |
| • for low rotational speed                                             | 10 ... 40 A                          |
| • for high rotational speed                                            | 10 ... 40 A                          |
| tripping 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                                    |
| operational 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 | 5                                    |
| insulation voltage (Ui)                                                |                                      |
| • with single-phase operation at AC rated value                        | 600 V                                |
| • with multi-phase operation at AC rated value                         | 300 V                                |

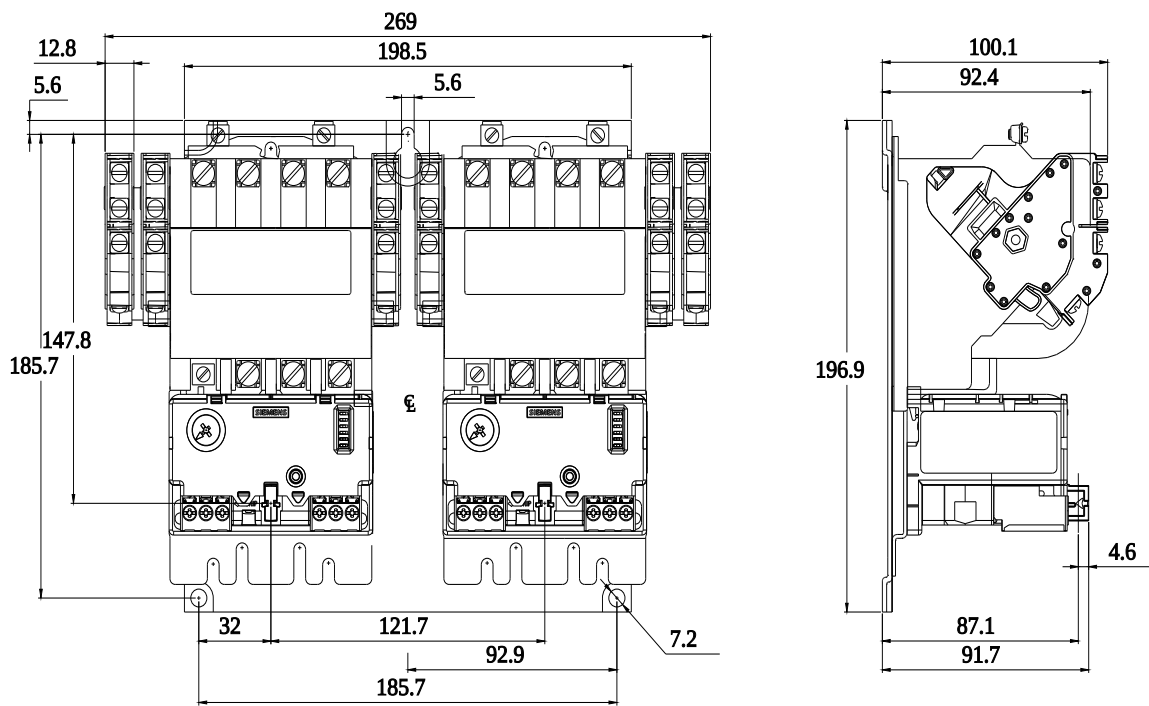
#### Mounting/wiring

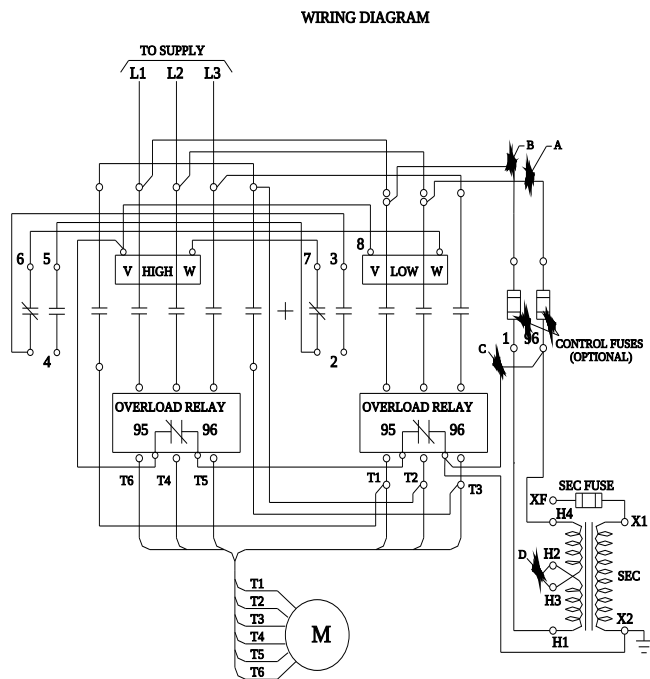
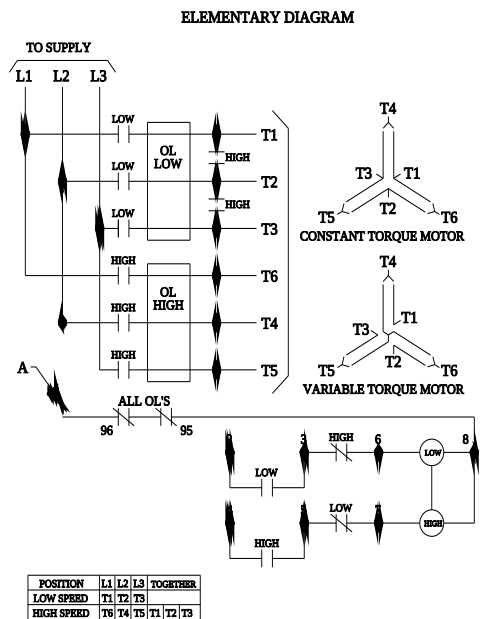
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|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| mounting position                                                                                                        | vertical                          |
| fastening method                                                                                                         | Surface mounting and installation |
| type of electrical connection for supply voltage line-side                                                               | Screw-type terminals              |
| tightening torque [lbf-in] for supply                                                                                    | 45 ... 45 lbf-in                  |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded                        | 1                                 |
| 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                                                                 | 45 ... 45 lbf-in                  |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded       | 1                                 |
| 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 for AWG cables single or multi-stranded                      | 2                                 |
| 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 for AWG cables for auxiliary contacts single or multi-stranded | 1                                 |
| 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                                                            | Screw-type terminals              |

|                                                                                                                                                            |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| contacts                                                                                                                                                   |                                     |
| tightening torque [lbf-in] at overload relay for auxiliary contacts                                                                                        | 7 ... 10 lbf-in                     |
| type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded                              | 2                                   |
| 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                                                                          | 10                                  |
| 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=US2:30EUEE32A2VF>  
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/US/en/ps/US2:30EUEE32A2VF>  
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:30EUEE32A2VF&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:30EUEE32A2VF&lang=en)  
**Certificates/approvals**  
<https://support.industry.siemens.com/cs/US/en/ps/US2:30EUEE32A2VF/certificate>





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