



Non-reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 10-40a Combination type 60Amp non-fused disconnect Encl NEMA type 4X 316 S-steel Water/dust tight non-corrosive Extra-wide enclosure

|  |  |
|--|--|
| product brand name   | Class 17 & 25  |
| design of the product  | Full-voltage non-reversing motor starter with non-fusible disconnect |
| special product feature  | ESP200 overload relay  |
| <b>General technical data</b>  |  |
| Height x Width x Depth [in]  | 24 × 20 × 8 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   |
| <b>Horsepower ratings</b>  |  |
| yielded mechanical performance [hp] for 3-phase AC motor                 |  |
| • at 200/208 V rated value   | 7.5 hp   |
| • at 220/230 V rated value   | 7.5 hp   |
| • at 460/480 V rated value   | 0 hp   |
| • at 575/600 V rated value   | 0 hp   |
| <b>Contactors</b>  |  |
| size of contactor  | NEMA controller size 1   |
| number of NO contacts for main contacts                                  | 3  |
| operational current at AC at 600 V rated value                           | 27 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                               | 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   | 380 ... 440 V  |
| • at AC at 60 Hz rated value   | 440 ... 480 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   |
| percentual drop-out voltage of magnet coil related to the input          | 50 %   |

|  |  |
|--|--|
| voltage  |  |
| ON-delay time  | 19 ... 29 ms                                   |
| OFF-delay time   | 10 ... 24 ms                                   |
| <b>Overload relay</b>  |  |
| product function   |  |
| • overload protection  | Yes  |
| • phase failure detection  | Yes  |
| • asymmetry detection  | Yes  |
| • ground fault detection   | Yes  |
| • test function  | Yes  |
| • external reset   | Yes  |
| reset function   | Manual, automatic and remote                   |
| trip class   | CLASS 5 / 10 / 20 (factory set) / 30           |
| adjustable current response value current of the current-dependent overload release                                      | 10 ... 40 A                                    |
| make time with automatic start after power failure 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  |
| <b>Disconnect Switch</b>   |  |
| response value of switch disconnecter  | 30   |
| design of fuse holder  | non-fusible                                    |
| operating class of the fuse link   | non-fusible                                    |
| <b>Enclosure</b>   |  |
| degree of protection NEMA rating   | 4, 316   |
| design of the housing  | Extra-wide                                     |
| 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  | 35 ... 35 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   | 35 ... 35 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 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 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                                  |
| 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=US2:17DUE82XH>

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

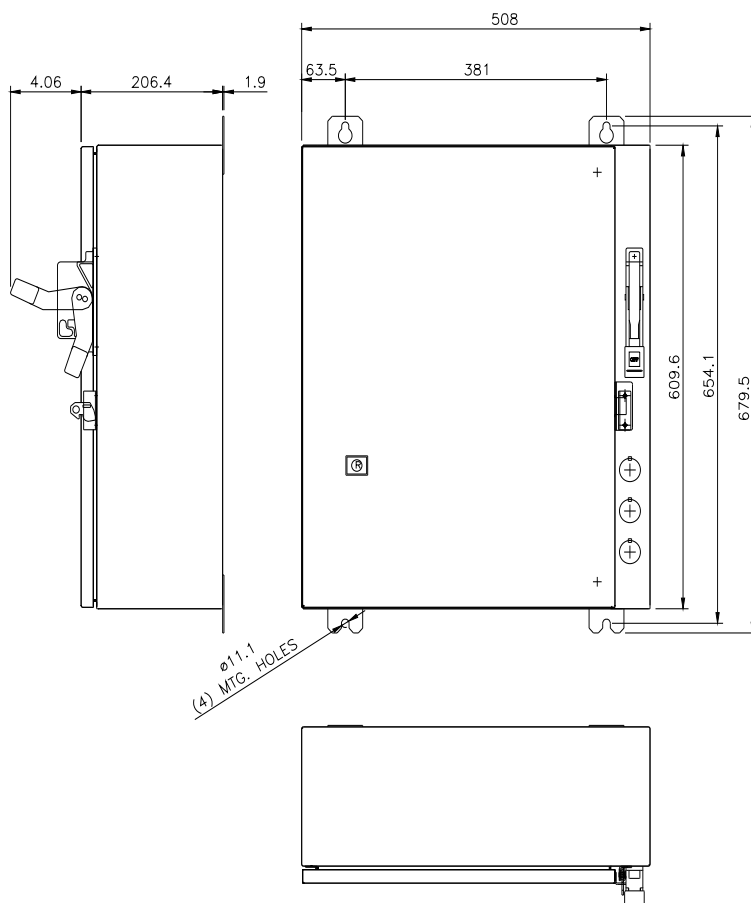
<https://support.industry.siemens.com/cs/US/en/ps/US2:17DUE82XH>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:17DUE82XH&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17DUE82XH&lang=en)

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:17DUE82XH/certificate>





D68782001

last modified:

12/3/2022