



Non-reversing NEMA contactor, Size 7, Three phase full voltage, Contactor amp rating 810A, 3 wire (NO aux included), 100-250V 50-60Hz/DC coil, Non-combination type, Enclosure NEMA type (open), No enclosure

|                                                                         |                                                                          |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------|
| product brand name                                                      | Class 40                                                                 |
| design of the product                                                   | Non-reversing contactor                                                  |
| special product feature                                                 | Contactors can be mounted in any position; Same coil voltage is AC or DC |
| <b>General technical data</b>                                           |                                                                          |
| weight [lb]                                                             | 78 lb(av)                                                                |
| Height x Width x Depth [in]                                             | 14.05 × 8.27 × 9.53 in                                                   |
| touch protection against electrical shock                               | Main circuit (not finger-safe); Control circuit (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                                                       | Switzerland                                                              |
| <b>Horsepower ratings</b>                                               |                                                                          |
| yielded mechanical performance [hp] for 3-phase AC motor                |                                                                          |
| • at 200/208 V rated value                                              | 0 hp                                                                     |
| • at 220/230 V rated value                                              | 300 hp                                                                   |
| • at 460/480 V rated value                                              | 600 hp                                                                   |
| • at 575/600 V rated value                                              | 600 hp                                                                   |
| <b>Contactors</b>                                                       |                                                                          |
| size of contactor                                                       | NEMA controller size 7                                                   |
| number of NO contacts for main contacts                                 | 3                                                                        |
| operating voltage for main current circuit at AC at 60 Hz maximum       | 600 V                                                                    |
| operational current at AC at 600 V rated value                          | 810 A                                                                    |
| mechanical service life (operating cycles) of the main contacts typical | 3000000                                                                  |
| <b>Auxiliary contact</b>                                                |                                                                          |
| number of NC contacts at contactor for auxiliary contacts               | 1                                                                        |
| 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@240VAC (A300), 2.5A@250VDC (Q300)                                    |
| <b>Coil</b>                                                             |                                                                          |
| type of voltage of the control supply voltage                           | AC/DC                                                                    |
| control supply voltage                                                  |                                                                          |
| • at DC rated value                                                     | 100 ... 250 V                                                            |
| • at AC at 50 Hz rated value                                            | 100 ... 250 V                                                            |
| • at AC at 60 Hz rated value                                            | 100 ... 250 V                                                            |
| holding power at AC minimum                                             | 4.5 W                                                                    |

|                                                                          |               |
|--------------------------------------------------------------------------|---------------|
| apparent pick-up power of magnet coil at AC                              | 850 VA        |
| apparent holding power of magnet coil at AC                              | 12 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 voltage  | 55 %          |
| ON-delay time                                                            | 30 ... 115 ms |
| OFF-delay time                                                           | 25 ... 80 ms  |

#### Enclosure

|                                                   |                            |
|---------------------------------------------------|----------------------------|
| degree of protection NEMA rating of the enclosure | Open device (no enclosure) |
| design of the housing                             | NA                         |

#### Mounting/wiring

|                                                                                                                          |                                   |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| mounting position                                                                                                        | Vertical                          |
| fastening method                                                                                                         | Surface mounting and installation |
| type of electrical connection for supply voltage line-side                                                               | Bus bar (M12 screws/bolts)        |
| tightening torque [lbf-in] for supply                                                                                    | 398 ... 398 lbf-in                |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded                        | 2/0 AWG ... 500 MCM               |
| temperature of the conductor for supply maximum permissible                                                              | 75 °C                             |
| material of the conductor for supply                                                                                     | CU                                |
| type of electrical connection for load-side outgoing feeder                                                              | bus bar (M12 screws/bolts)        |
| tightening torque [lbf-in] for load-side outgoing feeder                                                                 | 398 ... 398 lbf-in                |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded       | 2/0 AWG ... 500 MCM               |
| 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                                                                                | 7 ... 10 lbf-in                   |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded                      | 2x (18 ... 14 AWG)                |
| temperature of the conductor at magnet coil maximum permissible                                                          | 75 °C                             |
| material of the conductor at magnet coil                                                                                 | CU                                |
| type of electrical connection at contactor for auxiliary contacts                                                        | Screw-type terminals              |
| tightening torque [lbf-in] at contactor for auxiliary contacts                                                           | 9 ... 9 lbf-in                    |
| type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded | 2x (18 ... 14 AWG)                |
| temperature of the conductor at contactor for auxiliary contacts maximum permissible                                     | 75 °C                             |
| material of the conductor at contactor for auxiliary contacts                                                            | CU                                |

#### Short-circuit current rating

|                                                                                   |                                     |
|-----------------------------------------------------------------------------------|-------------------------------------|
| design of the fuse link for short-circuit protection of the main circuit required | 82kA@600V (Class R or L)            |
| design of the short-circuit trip                                                  | Thermal magnetic circuit breaker    |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                |                                     |
| • at 240 V                                                                        | 0 A                                 |
| • at 480 V                                                                        | 0 A                                 |
| • at 600 V                                                                        | 0 A                                 |
| certificate of suitability                                                        | NEMA ICS 2; UL 508; CSA 22.2, No.14 |

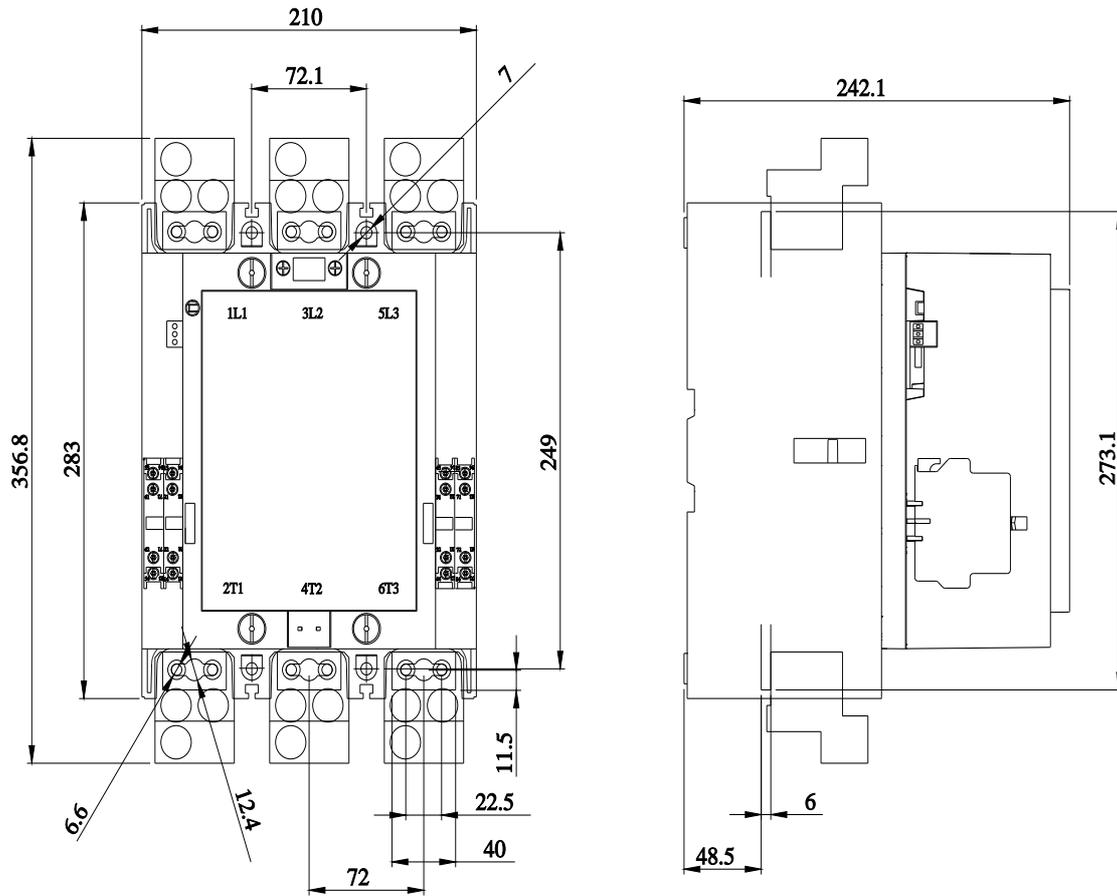
#### Approvals Certificates

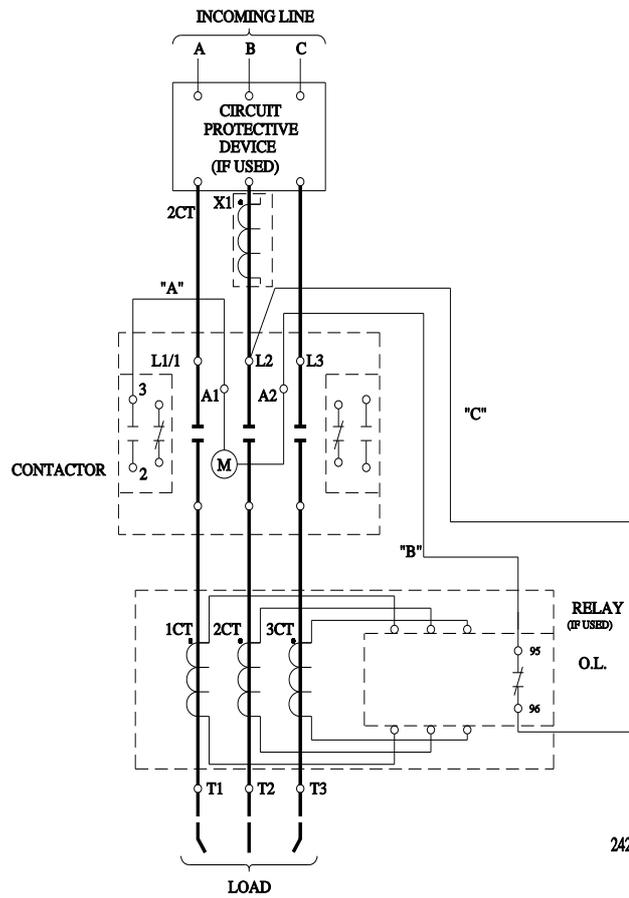
##### Test Certificates



#### 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=US2:40NH32AF>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)





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last modified:

1/28/2022 