



Figure similar

Non-reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 5.5-22A 550/575-600 50/60HZ coil Combination type Water/dust tight non-corrosive

product brand name  
design of the product  
special product feature

Class 14  
Full-voltage non-reversing motor starter  
ESP200 overload relay

### General technical data

weight [lb] 11 lb  
Height x Width x Depth [in] 13 × 8 × 5 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

### Horsepower ratings

yielded mechanical performance [hp] for 3-phase AC motor  
    • at 200/208 V rated value 3 hp  
    • at 220/230 V rated value 3 hp

### Contactors

size of contactor NEMA controller size 0  
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 18 A  
mechanical service life (operating 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 550 V  
    • at AC at 60 Hz rated value 575 ... 600 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 |

#### Overload relay

|                                                                                     |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------|
| product function                                                                    | Yes                                  |
| • 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 | 5.5 ... 22 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              | 5A@600VAC (B600), 1A@250VDC (R300)   |
| insulation voltage (Ui)                                                             |                                      |
| • with single-phase operation at AC rated value                                     | 600 V                                |
| • with multi-phase operation at AC rated value                                      | 300 V                                |

#### Enclosure

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| degree of protection NEMA rating | 4X, 304 stainless steel                      |
| design of the housing            | Dust-tight, watertight & corrosion resistant |

#### Mounting/wiring

|                                                                                                                   |                                                    |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 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                                                                             | 20 ... 20 lbf·in                                   |
| type of connectable conductor cross-sections at line-side at AWG cables 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 ... 20 lbf·in                                   |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded | 1x(14 - 2 AWG)                                     |
| 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 at AWG cables 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 cables for auxiliary contacts single or multi-   | 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG) |

stranded

temperature of the conductor at contactor for auxiliary contacts maximum permissible

material of the conductor at contactor for auxiliary contacts

type of electrical connection at overload relay for auxiliary contacts

tightening torque [lbf-in] at overload relay for auxiliary contacts

type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded

temperature of the conductor at overload relay for auxiliary contacts maximum permissible

material of the conductor at overload relay for auxiliary contacts

75 °C

CU

screw-type terminals

7 ... 10 lbf-in

2 x (20 - 14 AWG)

75 °C

CU

#### Short-circuit current rating

design of the fuse link for short-circuit protection of the main circuit required

design of the short-circuit trip

maximum short-circuit current breaking capacity (Icu)

- at 240 V
- at 480 V
- at 600 V

certificate of suitability

10kA@600V (Class H or K); 100kA@600V (Class R or J)

Thermal magnetic circuit breaker

14 kA

10 kA

10 kA

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=US2:14CUD32WE>

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

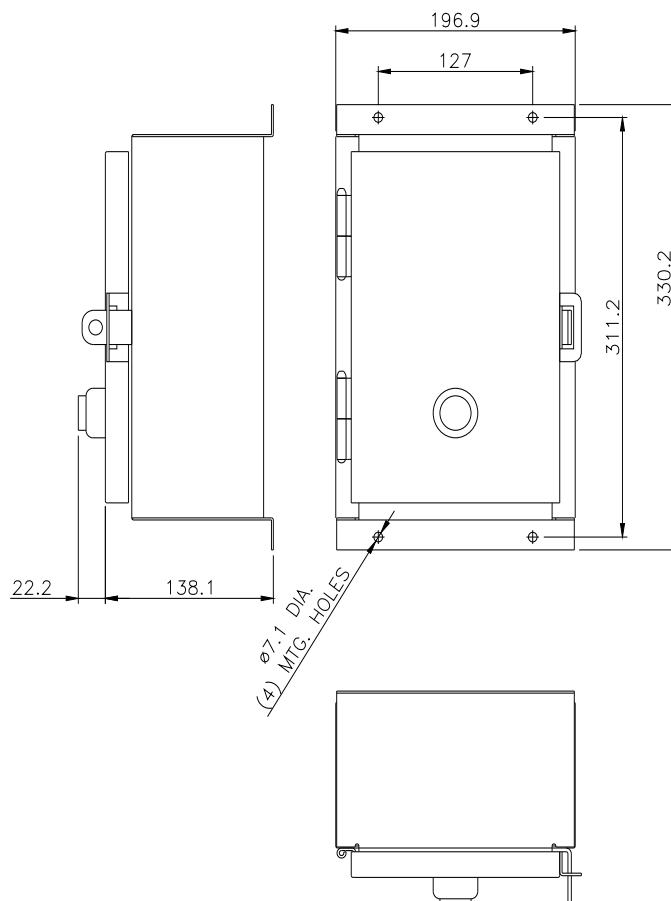
<https://support.industry.siemens.com/cs/US/en/ps/US2:14CUD32WE>

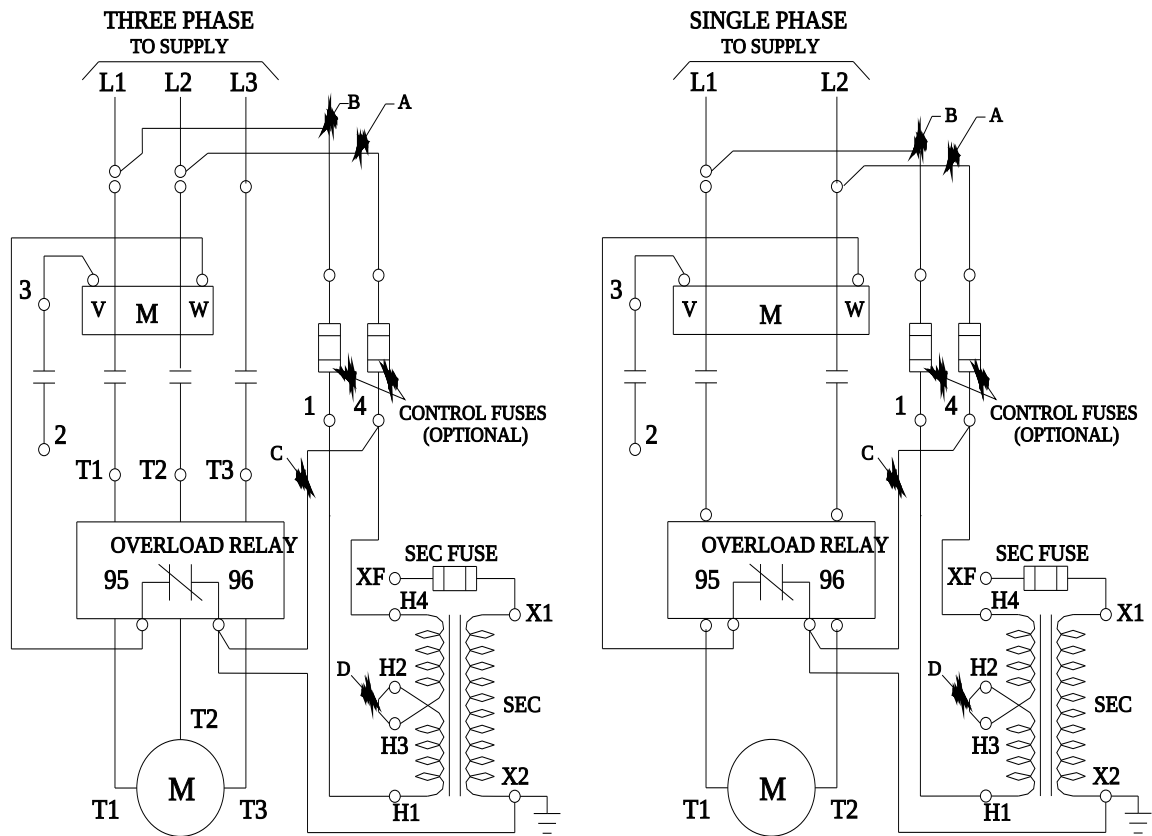
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14CUD32WE&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14CUD32WE&lang=en)

**Certificates/approvals**

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