## SIEMENS

## Data sheet

## US2:22CUD32AF



Reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 5.5-22A 110VAC 50HZ / 120VAC 60HZ coil Non-combination type Enclosure type (open)

| product brand name         Class 22           design of the product feature         Full-voltage reversing motor starter           special product feature         ESP20 overload relay           General tochnical data         6 lb           weight [b]         6 lb           Height x Width x Depth [in]         7.69 × 10.5 × 3.92 in           tocch protection against electrical shock         Not finger-safe           installation altitude [II] at height above sea level maximum         650 ft           ambient temperature [F]         -4 +104 "F           • during operation         -4 +104 "C           country of origin         Mexico           Hospower ratings         -30 +65 "C           • during operation         -20 +40 "C           country of origin         Mexico           Hospower ratings         -30 +65 "C           vielded mechanical performance [hp] for 3-phase AC motor         -20 +40 "C           motor         -3 hp         -3 hp           • at 200/208 V rated value         3 hp         -3 at 200/208 V rated value           • at 220/230 V rated value         0 hp         -3 motor           size of contactor         NEMA controller size 0         -10   | Figure similar   |                                      |
|--|--|--------------------------------------|
| special product feature         ESP200 overload relay           General technical data         6 lb           weight [lb]         6 lb           Height X Width x Depth [in]         7.69 × 10.5 × 3.92 in           touch protection against electrical shock         Not finger-safe           installation altitude [ft] at height above sea level maximum         6560 ft           ambient temperature ['F]         -22 +149 "F           • during storage         -22 +149 "F           • during operation         -4 +104 "F           ambient temperature         -30 +65 "C           • during operation         -20 +40 "C           country of origin         Mexico           Horsepower ratings         yielded mechanical performance [hp] for 3-phase AC           motor         at 260/208 V rated value         3 hp           • at 270/208 V rated value         3 hp           • at 250/208 V rated value         0 hp           • at 250/200 V rated value         0 hp           • at 250/200 V rated value         0 hp           • at 257/600 V rated value         0 hp           • at 257/600 V rated value         1000000           operating voltage for main contacts         3           operating voltage for main courtent icruuit at AC at 60 Hz         10000000<  | product brand name   | Class 22                             |
| General technical data     6 lb       weight [b]     6 lb       Height x Width x Depth [in]     7.69 × 10.5 × 3.92 in       touch protection against electrical shock     Not finger-safe       installation altitude [I] at height above sea level maximum     6660 ft       ambient temperature ['F]     -22 +149 'F       • during operation     -4 +104 'F       ambient temperature     -30 +65 °C       • during operation     -20 +40 'C       county of origin     Mexico <b>Hospower ratings</b> -30 +65 'C       • el drox origin     Mexico <b>Hospower ratings</b> -30 +65 'C       • el drox origin     Mexico <b>Hospower ratings</b> -30 +65 'C       • el at 200/208 V rated value     3 hp       • at 200/208 V rated value     3 hp       • at 200/208 V rated value     0 hp       • at 200/208 V rated value     0 hp       • at 200/208 V rated value     0 hp       • at 200/208 V rated value     1 h       • at 200/208 V rated value     1 h       • at 200/208 V rated value     1 h   | design of the product  | Full-voltage reversing motor starter |
| weight [lb]       6 lb         Height x Widh x Depth [in]       7.69 × 10.5 × 3.92 in         touch protection against electrical shock       Not finger-safe         installation altitude [lt] at height above sea level maximum       6560 ft         ambient temperature ['F]       -22 +149 'F         • during storage       -32 +65 'C         • during storage       -30 +65 'C         • during storage       -30 +65 'C         • during storage       -30 +65 'C         • during operation       -20 +40 'C         country of origin       Mexico         Hosspower ratings       yielded mechanical performance [hp] for 3-phase AC         motor       • at 200/208 V rated value       3 hp         • at 200/208 V rated value       3 hp         • at 40/408 V rated value       0 hp         • at 40/408 V rated value       0 hp         • at 575/600 V rated value       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       10000000         operating voltage for main current at AC at 60 Hz       600 V         maximum       18 A         mechanical service life (switching cycles) of the main contacts       0         number of NC contacts at contactor for auxiliary contac   | special product feature                                      | ESP200 overload relay                |
| Height X Width X Depth [in]       7.69 × 10.5 × 3.92 in         touch protection against electrical shock       Not finger-safe         installation altitude [ft] at height above sea level maximum       6660 ft         ambient temperature ['F]       -         • during operation       -4+104 °F         ambient temperature       -         • during storage       -22+149 °F         • during operation       -4+104 °F         ambient temperature       -20+40 °C         • during operation       -20+40 °C         county of origin       Mexico         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC         motor       - at 2200/208 V rated value       3 hp         • at 2200/208 V rated value       3 hp         • at 460/480 V rated value       0 hp         • at 460/480 V rated value       0 hp         • at 460/480 V rated value       0 hp         • at 460/480 V rated value       1         • at 460/480 V rated value       1         • at 460/480 V rated value       0 hp         • at 460/480 V rated value       1         • at 600 V rated value       1         • at 600 V rated value       1         • operating voltage for main current circuit at AC at  | General technical data                                       |                                      |
| touch protection against electrical shock       Not finger-safe         installation altitude [ft] at height above sea level maximum       6560 ft         ambient temperature ['F]       -22 +149 °F         • during operation       -4 +104 "F         ambient temperature       -30 +65 °C         • during operation       -20 +40 °C         country of origin       Mexico         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC motor         • at 200/208 V rated value       3 hp         • at 222/23 V rated value       3 hp         • at 460/480 V rated value       0 hp         • at 220/208 V rated value       0 hp         • at 257/600 V rated value       0 hp         • at 557/600 V rated value       3         • greating voltage for main current circuit at AC at 60 Hz       3         maximum       600 V         operating voltage for main current circuit at AC at 60 Hz       10000000         Auxiliary contact       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1  | weight [lb]  | 6 lb                                 |
| installation altitude [ft] at height above sea level maximum       6560 ft         ambient temperature ['F]       -22 +149 °F         • during operation       -4 +104 °F         ambient temperature       -30 +65 °C         • during operation       -20 +40 °C         country of origin       Mexico         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value       3 hp         • at 220/230 V rated value       3 hp         • at 250/200 V rated value       0 hp         • at 455/600 V rated value       0 hp         contactor       NEMA controller size 0         size of contacts for main contacts       3         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       1000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       1         number of NO contacts of rom auxiliary contacts       1         number of NO contacts of rom auxiliary contacts       1         number of NO contacts of contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for aux   | Height x Width x Depth [in]                                  | 7.69 × 10.5 × 3.92 in                |
| ambient temperature [°F]       -22 +149 °F         • during storage       -22 +149 °F         • during operation       -4 +104 °F         ambient temperature       -4 +104 °F         • during storage       -30 +65 °C         • during operation       -20 +40 °C         country of origin       Mexico         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC         wotor       • at 200/208 V rated value       3 hp         • at 200/208 V rated value       3 hp         • at 200/208 V rated value       0 hp         • at 460/480 V rated value       0 hp         • at 575/600 V rated value       0 hp         • of number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       800 V         maximum       18 A         operational current at AC at 600 V rated value       18 A         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to U.       10A@60   | touch protection against electrical shock                    | Not finger-safe                      |
| • during storage       -22 +149 "F         • during operation       -4 +104 "F         ambient temperature       -30 +65 "C         • during storage       -30 +65 "C         • during operation       -20 +40 "C         country of origin       Mexico         Horsepower ratings       -20 +40 "C         ylelded mechanical performance [hp] for 3-phase AC motor       -at 200/208 V rated value         • at 200/208 V rated value       3 hp         • at 260/480 V rated value       0 hp         • at 460/480 V rated value       0 hp         • at 575/600 V rated value       0 hp         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         number of NO contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary  | installation altitude [ft] at height above sea level maximum | 6560 ft                              |
| • during operation       -4 +104 °F         ambient temperature       -30 +65 °C         • during operation       -20 +40 °C         country of origin       Mexico         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         • at 460/480 V rated value       0 hp         • at 557/600 V rated value       0 hp         • at 557/600 V rated value       3         • 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 (switching cycles) of the main contacts typical       0         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at co   | ambient temperature [°F]                                     |                                      |
| ambient temperature       -30 +65 °C         • during operation       -20 +40 °C         country of origin       Mexico         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         • at 260/480 V rated value       0 hp         Contactor       0 hp         Size of contactor       NEMA controller size 0         number of NO contacts for main contacts       3         operating witage 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 (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1 <td><ul> <li>during storage</li> </ul></td> <td>-22 +149 °F</td> | <ul> <li>during storage</li> </ul>                           | -22 +149 °F                          |
| • during storage       -30 +65 °C         • during operation       -20 +40 °C         country of origin       Mexico         Horsepower ratings  | <ul> <li>during operation</li> </ul>                         | -4 +104 °F                           |
| • during operation       -20 +40 °C         country of origin       Mexico         Horsepower ratings  | ambient temperature  |                                      |
| Country of origin         Mexico           Horsepower ratings         yielded mechanical performance [hp] for 3-phase AC motor         at 200/208 V rated value         3 hp           • at 200/208 V rated value         3 hp         at 220/230 V rated value         3 hp           • at 220/230 V rated value         0 hp         0 hp           • at 460/480 V rated value         0 hp         0 hp           • at 575/600 V rated value         0 hp         0 hp           Contactor         NEMA controller size 0         number of NO contacts for main contacts           0 operating voltage for main current circuit at AC at 60 Hz         600 V         maximum           operational current at AC at 600 V rated value         18 A         10000000           Auxiliary contact         0         10000000         1000000           Auxiliary contacts at contactor for auxiliary contacts         0         1           number of NC contacts at contactor for auxiliary contacts         1         1           number of NO contacts at contactor for auxiliary contacts         1         1           number of NO contacts at contactor for auxiliary contacts         1         1           number of NO contacts at contactor for auxiliary contacts         1         1           number of NO contacts at contactor for auxiliary contacts         1                      | <ul> <li>during storage</li> </ul>                           | -30 +65 °C                           |
| 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         • at 220/230 V rated value       0 hp         • at 460/480 V rated value       0 hp         • at 455/600 V rated value       0 hp         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         operating contact       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         coli       tupe of voltage of the control supply voltage       AC  | during operation   | -20 +40 °C                           |
| 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         • at 460/480 V rated value       0 hp         • at 575/600 V rated value       0 hp         contactor       NEMA controller size 0         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       600 V         operational current at AC at 600 V rated value       18 A         operatincel service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts maximum       8         contact rating of auxiliary contacts of contactor according       10A@600VAC (A600), 5A@600VDC (P600)         coil       type of voltage of the control supply voltage       AC   | country of origin  | Mexico                               |
| motor       • at 200/208 V rated value       3 hp         • at 220/230 V rated value       3 hp         • at 460/480 V rated value       0 hp         • at 460/480 V rated value       0 hp         • at 575/600 V rated value       0 hp         Contactor       0 hp         size of contactor number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       600 V         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil   | Horsepower ratings   |                                      |
| • at 220/230 V rated value       3 hp         • at 460/480 V rated value       0 hp         • at 575/600 V rated value       0 hp         Contactor       0 hp         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       600 V         maximum       600 V         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contacts       0         number of NC contacts at contactor for auxiliary contacts       0         number of NC contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       4C  |  |                                      |
| • at 460/480 V rated value       0 hp         • at 575/600 V rated value       0 hp         Contactor       0 hp         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       600 V         maximum       18 A         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO 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@600VAC (A600), 5A@600VDC (P600)         coli        AC  | • at 200/208 V rated value                                   | 3 hp                                 |
| • at 575/600 V rated value       0 hp         Contactor       size of contactor         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       0 perational current at AC at 600 V rated value       18 A         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         coil       to UL       AC  | • at 220/230 V rated value                                   | 3 hp                                 |
| Contactor       NEMA controller size 0         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       600 V         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       AC  | <ul> <li>at 460/480 V rated value</li> </ul>                 | 0 hp                                 |
| 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       600 V         maximum       600 V         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO 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@600VAC (A600), 5A@600VDC (P600)         Coil       AC   | <ul> <li>at 575/600 V rated value</li> </ul>                 | 0 hp                                 |
| number of NO contacts for main contacts3operating voltage for main current circuit at AC at 60 Hz<br>maximum600 Voperational current at AC at 600 V rated value18 Amechanical service life (switching cycles) of the main<br>contacts typical10000000Auxiliary contact0number of NC contacts at contactor for auxiliary contacts0number of NO contacts at contactor for auxiliary contacts1number of total auxiliary contacts maximum8contact rating of auxiliary contacts of contactor according<br>to UL10A@600VAC (A600), 5A@600VDC (P600)Coiltype of voltage of the control supply voltageAC   | Contactor  |                                      |
| operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       600 V         operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         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       4         type of voltage of the control supply voltage       AC  | size of contactor  | NEMA controller size 0               |
| maximum       operational current at AC at 600 V rated value       18 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       10000000         number of NC contacts at contactor for auxiliary contacts       0         number of NO 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@600VAC (A600), 5A@600VDC (P600)         Coil       Kype of voltage of the control supply voltage       AC   | number of NO contacts for main contacts                      | 3                                    |
| mechanical service life (switching cycles) of the main contacts typical       1000000         Auxiliary contact       1000000         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       4         type of voltage of the control supply voltage       AC   |  | 600 V                                |
| contacts typical       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       4         type of voltage of the control supply voltage       AC  | operational current at AC at 600 V rated value               | 18 A                                 |
| 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       4         type of voltage of the control supply voltage       AC   |  | 1000000                              |
| 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   | Auxiliary contact  |                                      |
| 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   | number of NC contacts at contactor for auxiliary contacts    | 0                                    |
| 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  | number of NO contacts at contactor for auxiliary contacts    | 1                                    |
| to UL Coil type of voltage of the control supply voltage AC  | number of total auxiliary contacts maximum                   | 8                                    |
| type of voltage of the control supply voltage AC   |  | 10A@600VAC (A600), 5A@600VDC (P600)  |
|  | Coil   |                                      |
| control supply voltage   | type of voltage of the control supply voltage                | AC                                   |
|  | control supply voltage                                       |                                      |

|  | 440.14                               |
|--|--------------------------------------|
| • at AC at 50 Hz rated value   | 110 V                                |
| at AC at 60 Hz rated value   | 120 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<br>of magnet coil  | 0.85 1.1                             |
| percental drop-out voltage of magnet coil related to the<br>input voltage  | 50 %                                 |
| ON-delay time  | 19 29 ms                             |
| OFF-delay time   | 10 24 ms                             |
| Overload relay   |                                      |
| product function   |                                      |
| <ul> <li>overload protection</li> </ul>  | Yes                                  |
| <ul> <li>phase failure detection</li> </ul>  | Yes                                  |
| <ul> <li>asymmetry detection</li> </ul>  | Yes                                  |
| <ul> <li>ground fault detection</li> </ul>   | 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 the current-<br>dependent overload release                                  | 5.5 22 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  | 1                                    |
| relay  |                                      |
| number of NO contacts of auxiliary contacts of overload<br>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)  |                                      |
| <ul> <li>with single-phase operation at AC rated value</li> </ul>  | 600 V                                |
| <ul> <li>with multi-phase operation at AC rated value</li> </ul>   | 300 V                                |
| Enclosure  |                                      |
| degree of protection NEMA rating   | 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   | Screw-type terminals                 |
| tightening torque [lbf·in] for supply  | 20 20 lbf·in                         |
| type of connectable conductor cross-sections at line-side  | 1x (14 2 AWG)                        |
| at AWG cables single or multi-stranded<br>temperature of the conductor for supply maximum                                | 75 °C                                |
| permissible  | AL or CIL                            |
| material of the conductor for supply   | AL or CU                             |
| type of electrical connection for load-side outgoing feeder  | Screw-type terminals<br>20 20 lbf·in |
| tightening torque [lbf·in] for load-side outgoing feeder   |                                      |
| type of connectable conductor cross-sections at AWG<br>cables for load-side outgoing feeder single or multi-<br>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   | 2x (16 12 AWG)                       |

| coil at AWG cables single or multi-stranded   |   |
|---|---|
| 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<br>at AWG cables for auxiliary contacts single or multi-<br>stranded      | 1x (12 AWG), 2x (16 14 AWG), 2x (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<br>relay at AWG cables for auxiliary contacts single or multi-<br>stranded | 2x (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                    |
| breaking capacity maximum short-circuit current (Icu)   |   |
| • at 240 V  | 14 kA   |
| • at 480 V  | 10 kA   |
| • at 600 V  | 10 kA   |
| certificate of suitability  | NEMA ICS 2; UL 508; CSA 22.2, No.14                 |
| Further information   |   |
| Industrial Controls - Product Overview (Catalogs, Brochu<br>www.usa.siemens.com/iccatalog<br>Industry Mall (Online ordering system) |   |

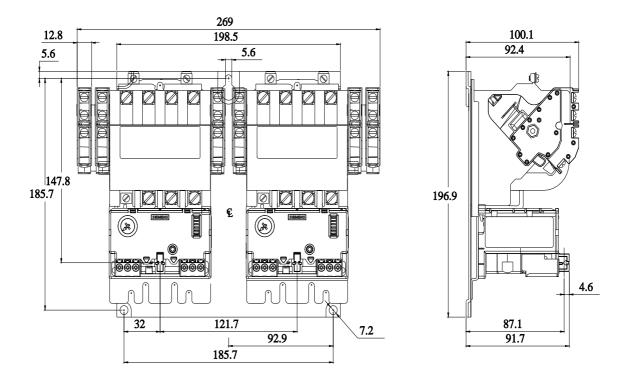
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22CUD32AF

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32AF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22CUD32AF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32AF/certificate



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