## SIEMENS

## Data sheet

## US2:22GP32FD81



Reversing motor starter, Size 2 1/2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 60A, 208VAC 60Hz coil, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive

product brand name     Class 14 & 22       design of the product feature     Full-voltage reversing motor starter       special product feature     Half-size starter       Centeral technical data     ************************************		
special product feature     Half-size starter       General technical data       weight [b]     18.5 lb       Height X Width x Depth [in]     24 × 15 × 7 in       touch protection against electrical shock     NA for enclosed products       installation altitude [ft] at height above sea level maximum     6600 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     USA       Horsepower ratings     -20 +40 "C       yielded mechanical performance [hp] for 3-phase AC     15 hp       ottact at 460/480 V rated value     20 hp       • at 220/230 V rated value     30 hp       • at 250/200 V rated value     30 hp       • at 460/480 V rated value     30 hp       • at 575/600 V rated value     3       operating voltage for main contacts     3       operating voltage for main current circuit at AC at 60 Hz     60 A       member 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 </td <td>product brand name</td> <td>Class 14 &amp; 22</td>	product brand name	Class 14 & 22
General technical data     weight [b]     18.5 lb       Height x Width x Depth [m]     24 × 15 × 7 in       Usuch protection against electrical shock     NA for enclosed products       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     USA       Horspower ratings     -90 +65 "C       yleided mechanical performance [hp] for 3-phase AC     -00 +65 "C       motor     -1 200/208 V rated value     20 hp       • at 200/208 V rated value     20 hp       • at 200/208 V rated value     30 hp       • at 3575/600 V rated value     30 hp       contactor     Controller half size 2 1/2       number of NC contacts for main contacts     3       operating voltage for main current circuit at AC at 60 Hz     60 A       mechanical service life (switching cycles) of the main contacts     0       number of NC contacts at contactor for auxillary contacts     1       number of NC contacts at contactor for auxillary contacts     0       number of NC contacts at contactor for auxillary contacts     1       number of NC contacts at contactor for auxillary contacts     1 <tr< td=""><td>design of the product</td><td>Full-voltage reversing motor starter</td></tr<>	design of the product	Full-voltage reversing motor starter
weight [lb]       18.5 lb         Height x Widh x Depth [in]       24 × 15 × 7 in         touch protection against electrical shock       NA for enclosed products         installation altitude [lt] at height above sea level maximum       6660 ft         ambient temperature ["F]       -22 +149 "F         • during storage       -30 +65 "C         • during vorage       -20 +40 "C         country of origin       USA         Horspower ratings       yielded mechanical performance [hp] for 3-phase AC         motor       • at 200/208 V rated value       20 hp         • at 420/208 V rated value       30 hp         • at 4575/600 V rated value       30 hp         • size of contactor       Controller half size 2 1/2         number of NC contacts for main current circuit at AC at 60 Hz       600 V         maximum       60 A         operating voltage for main current circuit at AC at 60 Hz       60 A         mechanical service life (switching cycles) of the main       100000000         contact	special product feature	Half-size starter
Height X Width X Depth [in]       24 × 15 × 7 in         touch protection against electrical shock       NA for enclosed products         installation altitude [ft] at height above sea level maximum       6660 ft         ambient temperature [°F]       -22 +149 °F         • during operation       -4 +104 °F         ambient temperature       -20 +65 °C         • during operation       -20 +65 °C         • during operation       -20 +40 °C         county of origin       USA         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC         motor       • at 2200/208 V rated value       15 hp         • at 2200/208 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 460/480 V rated value       30 hp         • at 460/480 V rated value       3         operating voltage for main contracts       3         operating voltage for main current circuit at AC at 60 Hz       3         operating voltage for main current circuit at AC at 60 Hz       60 A         maximum       1       1000000         operating voltage for main current circuit at AC at 60 Hz       0         maximum       60 A       1         number of NC contacts at contactor for auxiliary contacts	General technical data	
Installation allitude [ft] at height above sea level maximum       6560 ft         ambient temperature ['F]       • during storage       -22 +149 "F         • during operation       -4 +104 "F         ambient temperature       -30 +65 "C         • during operation       -20 +40 °C         country of origin       USA         Horsepower ratings       -20 +40 °C         vielded mechanical performance [hp] for 3-phase AC motor       • at 220/208 V rated value         • at 220/208 V rated value       15 hp         • at 220/208 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 575/600 V rated value       30 hp         contactor       Size of contacts for main contacts         size of contacts       G00 V         maximum       600 V         operating voltage for main current circuit at AC at 60 Hz       10000000         maximum       60 A         mechanical service life (switching cycles) of the main contacts to pricate 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 c	weight [lb]	18.5 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       USA         Horsepower ratings       -30 +65 °C         yielded mechanical performance [hp] for 3-phase AC       USA         Motor       at 220/230 V rated value       15 hp         • at 220/230 V rated value       20 hp         • at 457/600 V rated value       30 hp         • at 457/600 V rated value       30 hp         • at 557/600 V rated value       30 hp         • at 575/600 V rated value       30 hp         operating voltage for main current circuit at AC at 60 Hz       3         maximum       600 V         operational current at AC at 600 V rated value       60 A         mechanical service life (switching cycles) of the main 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	Height x Width x Depth [in]	24 × 15 × 7 in
ambient temperature ['F]       -22 +149 °F         • during storage       -22 +149 °F         • during storage       -30 +65 °C         • during operation       -20 +40 °C         country of origin       USA         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC         wiotor       • at 200/208 V rated value         • at 200/208 V rated value       20 hp         • at 400/400 V rated value       30 hp         Contractor       Size of contactor         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz maximum       60 A         operational current at AC at 600 V rated value       60 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       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 U.       10A@600VAC	touch protection against electrical shock	NA for enclosed products
• 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       USA         Horsepower ratings         ylelded mechanical performance [hp] for 3-phase AC         motor       • at 200/208 V rated value         • at 200/208 V rated value       15 hp         • at 200/208 V rated value       30 hp         • at 450/480 V rated value       30 hp         • at 450/480 V rated value       30 hp         • contactor       Controller half size 2 1/2         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       3         operational current at AC at 600 V rated value       60 A         mechanical service life (switching cycles) of the main       10000000         contacts typical       10000000         Auxiliary 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       <	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       USA         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC motor         • at 200/208 V rated value       15 hp         • at 220/230 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 57/600 V rated value       30 hp         • at 50 contactor       Controller half size 2 1/2         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       0         operational current at AC at 600 V rated value       60 A         mechanical service life (switching cycles) of the main contacts typical       1000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxil	ambient temperature [°F]	
ambient temperature       -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       15 hp         • at 220/230 V rated value       20 hp         • at 460/480 V rated value       30 hp         Contactor       Size of contactor         size of contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz maximum       600 V         maximum       10000000         operational current at AC at 600 V rated value       60 A         mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact at contactor for auxiliary contacts       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	<ul> <li>during storage</li> </ul>	-22 +149 °F
• 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       15 hp         • at 220/230 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 4575/600 V rated value       30 hp         • at 4575/600 V rated value       30 hp         Contactor       Controller half size 2 1/2         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz maximum       60 A         operational current at AC at 600 V rated value       60 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 NO 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 NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       <	during operation	-4 +104 °F
• 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       15 hp         • at 220/230 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 575/600 V rated value       30 hp         contactor       Controller half size 2 1/2         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       60 A         operational current at AC at 600 V rated value       60 A         mechanical service life (switching cycles) of the main contacts       10000000         Auxiliary contact       0         number of NC contacts at contactor for 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 NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         n	ambient temperature	
country of origin       USA         Horsepower ratings	<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       15 hp         • at 220/230 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 4575/600 V rated value       30 hp         Contactor       Controller half size 2 1/2         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       60 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 NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         cotal       type of voltage of the control supply voltage       AC	during operation	-20 +40 °C
yielded mechanical performance [hp] for 3-phase AC motor       15 hp         • at 200/208 V rated value       15 hp         • at 220/230 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 575/600 V rated value       30 hp         • at 575/600 V rated value       30 hp         Contactor       Controller half size 2 1/2         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       60 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 maximum       7         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	USA
motor       • at 200/208 V rated value       15 hp         • at 220/230 V rated value       20 hp         • at 460/480 V rated value       30 hp         • at 460/480 V rated value       30 hp         • at 575/600 V rated value       30 hp         Contactor       Size of contactor for main contacts         size of contactor for 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       60 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 total auxiliary contacts maximum       7         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       20 hp         • at 460/480 V rated value       30 hp         • at 575/600 V rated value       30 hp         Contactor       Size of contactor         size of contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       600 A         operational current at AC at 600 V rated value       60 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 total auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       Appending of the control supply voltage       AC		
• at 460/480 V rated value       30 hp         • at 575/600 V rated value       30 hp <b>Contactor</b> 30 hp         size of contactor       Controller half size 2 1/2         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       60 A         operational current at AC at 600 V rated value       60 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 NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       7         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	• at 200/208 V rated value	15 hp
• at 575/600 V rated value       30 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       60 A         operational current at AC at 600 V rated value       60 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 total auxiliary contacts of contactor according to UL       7         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	20 hp
Contactor         size of contactor       Controller half size 2 1/2         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       60 A         operational current at AC at 600 V rated value       60 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 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       type of voltage of the control supply voltage       AC	• at 460/480 V rated value	30 hp
size of contactor       Controller half size 2 1/2         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       60 A         operational current at AC at 600 V rated value       60 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       7         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       Kpe of voltage of the control supply voltage       AC	• at 575/600 V rated value	30 hp
number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       60 A         operational current at AC at 600 V rated value       60 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       7         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       AC	Contactor	
operating voltage for main current circuit at AC at 60 Hz maximum600 Voperational current at AC at 600 V rated value60 Amechanical service life (switching cycles) of the main contacts typical10000000Auxiliary contact0number of NC contacts at contactor for auxiliary contacts0number of NO contacts at contactor for auxiliary contacts1number of total auxiliary contacts maximum7contact rating of auxiliary contacts of contactor according to UL10A@600VAC (A600), 5A@600VDC (P600)CoilKype of voltage of the control supply voltageAC	size of contactor	Controller half size 2 1/2
maximum       60 A         operational current at AC at 600 V rated value       60 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       7         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	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       7         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       7         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	operational current at AC at 600 V rated value	60 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       7         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       7         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       7         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	7
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	

<ul> <li>at AC at 60 Hz rated value</li> </ul>	208 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	50 %
input voltage	40
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
<ul> <li>overload protection</li> </ul>	Yes
test function	Yes
external reset	Yes
reset function	Manual and automatic
adjustment range of thermal overload trip unit	0.85 1.15
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	0
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	10 A
• at DC at 250 V	5 A
contact rating of auxiliary contacts of overload relay according to UL	10A@600VAC (A600), 5A@250VDC (P300)
Enclosure	
degree of protection NEMA rating	4X, fiber glass
design of the housing	dustproof, waterproof & resistant to corrosion
Mounting/wiring	
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	45 45 lbf in
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 50 lbf in
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	2x (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- 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	5 12 lbf·in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded	2x (16 12 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C

CU
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 Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22GP32FD81

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

https://support.industry.siemens.com/cs/US/en/ps/US2:22GP32FD81

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22GP32FD81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22GP32FD81/certificate

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