SIEMENS

Data sheet US2:88HUGP4MH

product brand name Class 88 design of the product sharive ESP200 overload relay Sepical product feature ESP200 overload relay Sepical product feature ESP200 overload relay Sepical product feature ESP200 overload relay Weight [IB] 168 Ib Height X Width X Deph [In] 55 × 28 × 11 Im touch protection against electrical shock NA for enclosed products installation attitude [IF] at height above sea level maximum ambient temperature [FF] • during storage - 22 +149 °F • during storage - 30 +65 °C • during storage - 30 +65 °C • during storage - 40 °C • during storage - 20 +40 °C USA Horseopower ratings yielded mechanical performance [Ihp] for 3-phase AC motor • at 200208 V rated value 0 Inp • at 200208 V rated value 0 Inp • at 675/600 V rated value 75 hp • at 675/600 V rated value 75 hp • at 675/600 V rated value 9 Inp size of contactor or main contacts operating voltage for main current circuit at AC at 60 Hz maximum poperational current at AC at 600 V rated value 90 A mechanical service life (operating cycles) of the main contacts (Jupical Inchesia Products at contactor for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC contacts at contact or for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC contacts at contact or for auxiliary contacts 1 number of INC contacts at contactor for auxiliary contacts 1 number of INC at 80 Hz rated value 30 MA Number of INC n		Reduced voltage pump panel, Two step part winding, Size 3, 460V 3-phase motor voltage, Solid-state overload relay, OLR amp range 25-100A, 380-440/440-480V 50/60Hz coil, 125A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use
Sepecial product feature Centerial technical data weight [Ib] Height x Width x Depht [in] touch protection against electrical shock instalation against electrical shock instalation altitude [It] at height above sea level maximum abbinat temperature [IF] • during operation - at 200/289 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 60 contacts for main contacts size of contacts or main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value poperating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value poperating obtained service life (operating cycles) of the main contacts splical for for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 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 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	product brand name	Class 88
Weight (1b) 168 lb Height X Widh x Depth [in] 55 x 28 x 11 lin touch protection against electrical shock NA for enclosed products installation altitude [it] at height above sea level maximum 6660 ft ambient temperature [*F] • during storage 2.2 +149 *F • during storage22 +149 *F • during storage30 +65 *C • during operation - 4 +104 *F ambient temperature • during storage30 +65 *C • during operation - 20 +40 *C country of origin USA Viorsopower ratings Visited mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 0 hp • at 240/203 V rated value 0 hp • at 480/480 V rated value 0 hp • at 480/480 V rated value 0 hp • at 575/600 V rated value 0 hp contactor Size of contactor No contacts for main contacts 3 contactor of NO contacts for main contacts 3 contactor of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 90 A mechanical service life (operating cycles) of the main contacts 5 ypical 4 will approximate the contacts and current 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 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 number of NC contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 7 number of NC contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 7 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 con	design of the product	Reduced voltage pump panel with MCP - Two step part winding
weight [b] Height X Width X Depth [n] 55 × 28 × 11 in touch protection against electrical shock installation attitude [n] at height above sea level maximum 6560 ft arbibert temperature [F] • during storage • during operation arbibert temperature • during storage • during operation arbibert temperature • during operation 20 +65 °C 20 +40 °C	special product feature	ESP200 overload relay
Height X Width x Depth [in] touch protection against electrical shock ANA for enclosed products installation attitude [fi] at height above sea level maximum ambient temperature [F] • during storage • during operation • during storage • during operation country of origin Worsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/200 V rated value • at 200/200 V rated value • at 200/200 V rated value • at 400/480 V rated value • at 575/600 V rated value • at 675/600 V rated value • at 675/600 V rated value • at 675/600 V rated value operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current siculation of the main contacts typical mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts n	General technical data	
touch protection against electrical shock installation altitude [II] at height above sea level maximum ambient temperature [F] • during operation ambient temperature • during operation ambient temperature • during storage • during operation authority origin USA ##OSSPOWER Testing #	weight [lb]	168 lb
Installation altitude [ft] at height above sea level maximum ambient temperature [FT] • during operation arbient temperature • during storage • during storage • during storage • during storage • 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 • at 200/208 V rated value • at 460/480 V rated value • at 675/600 V rated value • at 60/480 V rated value • at 75/600 V rated value • at 60/480 V rated value • at 60/480 V rated value • at 75/600 V rated value	Height x Width x Depth [in]	55 × 28 × 11 in
ambient temperature ["F] • during storage • during operation country of origin USA Horsepower ratings yielded mechanical performance (hp) for 3-phase AC motor • at 200/208 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 675/600 V rated value • by the formation of NO contacts for main contacts size of contactor size of contactor size of contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value poperational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts stypical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 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 NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 2 0 1 1 1 1 2 1 2 2 2 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	touch protection against electrical shock	NA for enclosed products
during storage	installation altitude [ft] at height above sea level maximum	6560 ft
 during operation 4 +104 "F ambient temperature during storage during operation 20 +85 "C during operation 20 +40 "C country of origin USA Horsepower ratings yelded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 0 hp at 200/208 V rated value 0 hp at 575/600 V rated value 0 hp Contactor size of contactor main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value onumber of INO contacts at contactor for auxiliary contacts number of INO contacts at contactor for auxiliary contacts number of INO contacts at contactor for auxiliary contacts 1 number of INO contacts at contactor for auxiliary contacts 10 number of INO contacts at contacts of contacts according to UL 10A@600VAC (A600), 5A@600VDC (P600) Coll Lype of voltage of the control supply voltage at C crated value at AC at 50 Hz rated value at AC at 50 Hz rated value at AC at 60 Hz rated valu	ambient temperature [°F]	
ambient temperature • during storage • during operation country of origin USA Horspower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 4575/600 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 60/480 V rated value • by a for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts number of NO contacts at contactor for auxillary contacts 1 number of NO contacts at contactor for auxillary contacts number of total auxillary contacts maximum 7 contact rating of auxillary contacts of contactor according to UL Coll type of voltage of the control supply voltage • at CC rated value • at AC at 50 Hz rated value • at AC at 60 Hz rated valu	during storage	-22 +149 °F
• during storage • during operation • 20 +40 °C • country of origin Horsepowor ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 60 No contacts for main contacts superational current at AC at 60 V rated value • aperational current at AC at 60 V rated value • aperational current at AC at 600 V rated value • aperational current at AC at 600 V rated value • aperational current at AC at 600 V rated value • aperating voltage for main current circuit at AC at 60 Hz maximum • operational current at AC at 600 V rated value • approximate to the service life (operating cycles) of the main contacts † typical Auxiliary contact 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 total auxiliary contacts of contactor according to UL Coll Very of voltage of the control supply voltage • at DC rated value • at AC at 60 Hz rated value	during operation	-4 +104 °F
during operation country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 480/480 V rated value at 480/480 V rated value at 575/600 V rated value ob hp Contactor size of contactor number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value poperational current at AC at 600 V rated value number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contacts and contactor according to UL Coll type of voltage of the control supply voltage at AC at 60 Hz rated value at AC at 60 Hz rated va	ambient temperature	
country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 450/480 V rated value • at 675/600 V rated value • at 675/600 V rated value • on the following of th	during storage	-30 +65 °C
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value O hp **Contactor** **Size of contactor** number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value **mechanical service life (operating cycles) of the main contacts typical **Auxiliary contact** number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL **Coll Utology of the control supply voltage • at DC rated value • at AC at 50 Hz	during operation	-20 +40 °C
yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 V rated value • at 420/480 V rated value • at 480/480 V rated value • at 480/480 V rated value • at 450/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value NEMA controller size 3 NEMA controller size 3 Operating voltage for main contacts 3 Operating voltage for main current circuit at AC at 60 Hz maximum Operational current at AC at 600 V rated value 90 A Operational current at AC at 600 V rated value Mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL Operating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) Type of voltage of the control supply voltage • at DC rated value • at AC at 50 Hz rated value •	country of origin	USA
at 200/208 V rated value at 200/230 V rated value but at 460/480 V rated value at 575/600 V rated value but at 575/600 V rated value but at 575/600 V rated value but at 575/600 V rated value contactor Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rocontact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at DC rated value at AC at 50 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage of magnet coil at AC operating range factor control supply voltage of magnet coil related to the input voltage end of the control supply voltage of magnet coil related to the input voltage 50 %	Horsepower ratings	
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at 460/480 V rated value by at 575/600 V rated value contractor Size of contactor Size of contactor Inumber of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact Inumber of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 1 Inumber of NO contacts at contactor for auxiliary contacts 1 Inumber of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coit type of voltage of the control supply voltage at DC rated value at AC at 50 Hz rated value at AC at 50 Hz rated value at AC at 60 Hz rated value 440 480 V holding power at AC minimum 440 480 V holding power at AC minimum 440 480 V operating range factor control supply voltage rated value of magnet coil at AC operating range factor control supply voltage rated value of magnet coil at AC operating range factor control supply voltage rated value of magnet coil related to the input voltage percental drop-out voltage of magnet coil related to the input voltage at Control supply voltage of magnet coil related to the input voltage	● at 220/230 V rated value	·
a at 575/600 V rated value Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical number of NO contacts at contactor for auxiliary contacts 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 Coil type of voltage of the control supply voltage at DC rated value at DC rated value at DC rated value at AC at 50 Hz rated value at AC at 50 Hz rated value 440 480 V holding power at AC minimum apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage of magnet coil related to the input voltage percental drop-out voltage of magnet coil related to the input voltage a control auxiliary contacts and contactor according to UL AC SO Maximum AC SO	● at 460/480 V rated value	·
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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 at DC rated value 0 0 V at AC at 50 Hz rated value 380 440 V at AC at 60 Hz rated value 440 480 V holding power at AC minimum 14 W apparent pick-up power of magnet coil at AC 310 VA apparent holding power of magnet coil at AC 26 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 %	mechanical service life (operating cycles) of the main contacts	
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contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage • at DC rated value • at AC at 50 Hz rated value • at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated to the input voltage 10A@600VAC (A600), 5A@600VDC (P600) AC 10A@600VAC (A600), 5A@600VDC (P600) AC 10A@600VAC (A600), 5A@600VDC (P600) 10A@600VAC (A600), 5A@	· · · · · · · · · · · · · · · · · · ·	
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percental drop-out voltage of magnet coil related to the input voltage	operating range factor control supply voltage rated value of	
·	percental drop-out voltage of magnet coil related to the input	50 %
- · · · · · · · · · · · · · · · · · · ·	ON-delay time	26 41 ms
OFF-delay time 14 19 ms	·	14 19 ms
Overload relay	Overload relay	

product function	
overload protection	Yes
phase failure detection	Yes
 asymmetry detection 	Yes
 ground fault detection 	Yes
• test function	Yes
external reset	Yes
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 (factory set) / 20 / 30
adjustable current response value current of the current- dependent overload release	25 100 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 of the enclosure	NEMA 3/3R
design of the housing	Weather proof for outdoor use
Circuit Breaker	
type of the motor protection	Motor circuit protector (magnetic trip only)
operational current of motor circuit breaker rated value	150 A
adjustable current response value current of instantaneous	800 1500 A
short-circuit trip unit	
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
	· ·
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)
type of connectable conductor cross-sections at line-side for	· ·
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 75 °C
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts maximum permissible material 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	1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 75 °C CU

type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-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 short-circuit trip	Instantaneous trip circuit breaker
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	100 kA
● at 480 V	100 kA
● at 600 V	25 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Forth and of annual and	

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=US2:88HUGP4MH

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

https://support.industry.siemens.com/cs/US/en/ps/US2:88HUGP4MH

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:88HUGP4MH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:88HUGP4MH/certificate

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