SIEMENS

Data sheet

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Duplex starter w/o alternator Size 4 Three phase full voltage Solid-state overload relay OLR amp range 50-200A Combination type Two 200A disconnect switches Encl NEMA type 4X 304 S. Steel Water/dust tight non-corrosive

product brand name	Class 84
design of the product	Duplex controller with two non-fusible disconnect switches without alternator
special product feature	ESP200 overload relay
General technical data	
weight [lb]	106 lb
Height x Width x Depth [in]	56 × 29 × 10 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	40 hp
 at 220/230 V rated value 	50 hp
 at 460/480 V rated value 	100 hp
 at 575/600 V rated value 	100 hp
Contactor	
size of contactor	NEMA controller size 4
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	135 A
mechanical service life (operating cycles) of the main contacts typical	500000
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
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	22 W

annarent nick-up nower of magnet coil at AC	510 VA
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC	510 VA 51 VA
operating range factor control supply voltage rated value of	0.85 1.1
magnet coil percental drop-out voltage of magnet coil related to the input voltage	50 %
voltage	18 34 ms
OR-delay time	18 34 ms 10 12 ms
OFF-delay time	IV 12 III0
Overload relay	
product function	Vac
overload protection phase failure detection	Yes
phase failure detection	Yes
asymmetry detection	Yes
ground fault detection test function	Yes
external reset	Yes
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current-	50 200 A
dependent overload release	3 s
relative repeat accuracy	1 %
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 single-phase operation at AC rated value with multi-phase operation at AC rated value 	600 V 300 V
with single-phase operation at AC rated value with multi-phase operation at AC rated value Disconnect Switch	
with multi-phase operation at AC rated value	
with multi-phase operation at AC rated value Disconnect Switch	300 V
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector	300 V 200A / 600V
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder	300 V 200A / 600V non-fusible
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link	300 V 200A / 600V non-fusible
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure	300 V 200A / 600V non-fusible non-fusible
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf-in
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil)
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil) 75 °C
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor for supply maximum permissible material of the conductor for supply	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf·in 1x (6 AWG 300 Kcmil) 75 °C AL or CU
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf·in 1x (6 AWVG 300 Kcmil) 75 °C AL or CU Box lug
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable 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	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil) 75 °C AL or CU Box lug 200 200 lbf-in
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with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection for supply type of electrical connection 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 type of connectable conductor for load-side outgoing feeder type of l	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil) 75 °C AL or CU Box lug 200 200 lbf-in 1x (6 AWG 250 MCM) 75 °C
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with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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 connectable conductor cross-sections for AWG cables for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable 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 for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of connectable 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	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil) 75 °C AL or CU Box lug 200 200 lbf-in 1x (6 AWG 250 MCM) 75 °C CU Screw-type terminals 5 12 lbf-in
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable 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 for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil type of connectable conductor ross-sections of magnet coil type of electrical connection of 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	300 V 200A / 600V non-fusible non-fusible NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil) 75 °C AL or CU Box lug 200 200 lbf-in 1x (6 AWG 250 MCM) 75 °C CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)

tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf-in
type of connectable conductor cross-sections at contactor for 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	7 10 lbf·in
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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

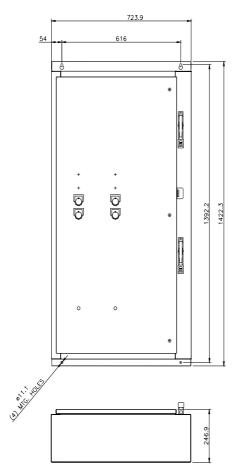
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84JUH95WDH

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

https://support.industry.siemens.com/cs/US/en/ps/US2:84JUH95WDH

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84JUH95WDH&lang=en

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:84JUH95WDH/certificate





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