SIEMENS

Data sheet US2:84EUE92EDF



Duplex starter with alternator Size 1.75 Three phase full voltage Solid-state overload relay OLR amp range 10-40A 110VAC 50Hz / 120VAC 60Hz Coil Combination type Two 60A disconnect switches Encl NEMA type 4 painted steel Water/dust tight weather proof

Figure similar

product brand name	Class 84
design of the product	Duplex controller with two non-fusible disconnect switches with alternator
special product feature	ESP200 overload relay; Half-size controller
General technical data	
weight [lb]	70 lb
Height x Width x Depth [in]	34 × 25 × 8 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	10 hp
• at 220/230 V rated value	10 hp
at 460/480 V rated value	15 hp
• at 575/600 V rated value	15 hp
Contactor	
size of contactor	Controller half size 1 3/4
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	40 A
mechanical service life (switching cycles) of the main contacts typical	10000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC

-	
control supply voltage	
at DC rated value	0 0 V
at AC at 50 Hz rated value	110 110 V
at AC at 60 Hz rated value	120 120 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 of magnet coil	0.85 1.1
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
 overload protection 	Yes
 phase failure detection 	Yes
asymmetry detection	Yes
ground fault detection	Yes
test function	Yes
external reset	Yes
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current-	10 40 A
dependent overload release	
tripping time at phase-loss maximum	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	5A@600VAC (B600), 1A@250VDC (R300)
according to UL	
insulation voltage (Ui)	
 with single-phase operation at AC rated value 	600 V
 with multi-phase operation at AC rated value 	300 V
Disconnect Switch	
response value of switch disconnector	60A / 600V
•	
design of fuse holder	non-fusible
design of fuse holder operating class of the fuse link	non-fusible non-fusible
operating class of the fuse link	
operating class of the fuse link Enclosure	non-fusible
operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure	non-fusible NEMA Type 4
operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing	non-fusible
operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof
operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical
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	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation
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	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug
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	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf·in
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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	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf·in
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 at AWG cables single or multi-stranded temperature of the conductor for supply maximum	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf·in 1x (14 2 AWG)
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 at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf·in 1x (14 2 AWG) 75 °C
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 at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU
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 at 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 at AWG cables for load-side outgoing feeder single or multi-	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals
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 at 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 at AWG	non-fusible NEMA Type 4 dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf·in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 45 45 lbf·in

maximum permissible	
material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	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 at contactor 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	7 10 lbf·in
type of connectable conductor cross-sections at overload relay at 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=US2:84EUE92EDF

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

https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE92EDF

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

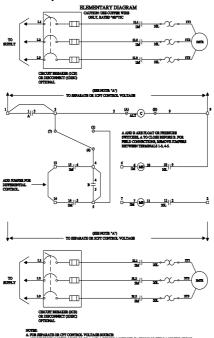
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84EUE92EDF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE92EDF/certificate

SCHEMATIC DIAGRAM

Class 83 & 84 Duplex W/Auto Alternation Size 0-4



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