## SIEMENS

## Data sheet

## US2:84DUE950DD



Pump control panel, Duplex controller NEMA size 1 Solid-state overload relay, OLR amp range 10-40A, 208 VAC coil, Fusible disconnect HOA Sel Sw. and Start P.B., Enclosure NEMA type 3/3R,12 Weather proof outdoor use

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]	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	
<ul> <li>during storage</li> </ul>	-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	7.5 hp
• at 220/230 V rated value	7.5 hp
• at 460/480 V rated value	0 hp
• at 575/600 V rated value	0 hp
Contactor	
size of contactor	NEMA controller size 1
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	27 A
mechanical service life (operating cycles) of the main contacts typical	1000000
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	0 0 V
<ul> <li>at AC at 60 Hz rated value</li> </ul>	208 208 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 input voltage	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
<ul> <li>overload protection</li> </ul>	Yes
phase failure detection	Yes
asymmetry detection	Yes
<ul> <li>ground fault detection</li> </ul>	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- dependent overload release	10 40 A
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 according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
with multi-phase operation at AC rated value Disconnect Switch	300 V
	300 V 30A / 600V
Disconnect Switch	
Disconnect Switch response value of switch disconnector	30A / 600V
Disconnect Switch response value of switch disconnector design of fuse holder	30A / 600V non-fusible
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link	30A / 600V non-fusible
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure	30A / 600V non-fusible non-fusible
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	30A / 600V non-fusible non-fusible NEMA Type 12
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	30A / 600V non-fusible non-fusible NEMA Type 12
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Box lug
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Box lug 35 35 lbf-in
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG)
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C
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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU
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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 electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in
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 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	30A / 600V non-fusible non-fusible NEMA Type 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG)
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 electrical connection for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         tightening torque filter onductor for load-side outgoing feeder         tightening torque filter onductor for load-side outgoing feeder         tighteni	30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)
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 electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           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 the conductor for load-side outgoing feeder           material of the conductor for load-side outgoing feeder </td <td>30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)</td>	30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)
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 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 electrical connection of nagnet coil           temperature of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           tightening torque [lbf-in] at magnet coil           type of c	30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf·in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf·in         1x (14 2 AWG)
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 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 supply           type of connectable conductor for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           tightening torque [lbf-in] or 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 mult	30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 32 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 32 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         5 12 lbf-in
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 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           type of connectable conductor for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of electrical connection of magnet coil           temperature of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           type of electrical connection of magnet coil           type of electrical connection of magnet coil <t< td=""><td>30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 12 lbf-in         2x (16 12 AWG)         75 °C</td></t<>	30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 12 lbf-in         2x (16 12 AWG)         75 °C
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 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 supply           type of connectable conductor for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           tightening torque [lbf-in] or 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 mult	30A / 600V         non-fusible         non-fusible         NEMA Type 12         dustproof and drip-proof for indoor use         Vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)         75 °C         AL or CU         Screw-type terminals         35 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=US2:84DUE950DD

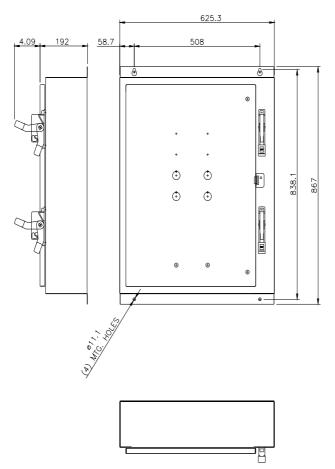
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUE950DD

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84DUE950DD&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUE950DD/certificate





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