## SIEMENS

## Data sheet

## US2:87DUE6LA

	Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 110-120/220-240VAC 60Hz coil, Standard type contactor,			
	30A fusible disconnect, 30A/250V fuse clip, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use			
product brand name	Class 87			
design of the product	Pump control panel with fused disconnect switch			
special product feature	ESP200 overload relay; Dual voltage coil			
General technical data	Lor 200 overload relay, Duar voltage con			
	47 lb			
weight [lb]	29 × 20 × 8 in			
Height x Width x Depth [in] touch protection against electrical shock				
installation altitude [ft] at height above sea level maximum	NA for enclosed products 6560 ft			
ambient temperature [°F]	0000 h			
• during storage	22 ±140 °E			
during storage during operation	-22 +149 °F -4 +104 °F			
ambient temperature	······································			
during storage	-30 +65 °C			
	-20 +40 °C			
• during operation country of origin	USA			
Horsepower ratings				
yielded mechanical performance [hp] for 3-phase AC motor	7.5 hr			
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	240 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			
• at AC at 60 Hz rated value	110 240 V			
holding power at AC minimum	8.6 W			
apparent pick-up power of magnet coil at AC	218 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 dolou time	10 24 ms			
OFF-delay time				

overload protection				
	Yes			
	Yes			
,,	Yes			
5	Yes			
	Yes			
	Yes			
	Manual, automatic and remote			
trip class C	CLASS 5 / 10 (factory set) / 20 / 30			
adjustable current response value current of the current- dependent overload release	10 40 A			
tripping time at phase-loss maximum 3	3 s			
relative repeat accuracy 1	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	5 A			
• at DC at 250 V 1	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 6	600 V			
• with multi-phase operation at AC rated value 3	300 V			
Disconnect Switch				
response value of switch disconnector 3	30A / 250V			
· · ·	Class H fuse clips			
· · · · · · · · · · · · · · · · · · ·	Class H, K and R			
Enclosure	·			
	NEMA Type 3R			
	Weather proof for outdoor use			
Standard Control Devices				
Standard Control Devices	Yes			
Standard Control Devices       product component Hand-Off-Auto selector switch     Y				
Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch	30mm metal housing with matte finish			
Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button	30mm metal housing with matte finish Yes			
Standard Control Devices     product component Hand-Off-Auto selector switch   Y     type of Hand-Off-Auto selector switch   3     product component start push button   Y     type of start push button   3	30mm metal housing with matte finish			
Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     type of start push button     Mounting/wiring	30mm metal housing with matte finish Yes 30mm metal housing with matte finish			
Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     type of start push button     3     Mounting/wiring     mounting position	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical			
Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     type of start push button     3     Mounting/wiring     mounting position     fastening method	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation			
Standard Control Devices     product component Hand-Off-Auto selector switch   Y     type of Hand-Off-Auto selector switch   3     product component start push button   Y     type of start push button   3     Mounting/wiring   3     mounting position   Y     fastening method   5     type of electrical connection for supply voltage line-side   6	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug			
Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     type of start push button     type of start push button     mounting/wiring     mounting position     fastening method     type of electrical connection for supply voltage line-side     tightening torque [lbf-in] for supply	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 35 35 lbf-in			
Standard Control Devices     product component Hand-Off-Auto selector switch   Y     type of Hand-Off-Auto selector switch   3     product component start push button   Y     type of start push button   3     Mounting/wiring   3     mounting position   Y     fastening method   S     type of electrical connection for supply voltage line-side   E     tightening torque [lbf-in] for supply   3     type of connectable conductor cross-sections at line-side for   1     AWG cables single or multi-stranded   1	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG)			
Standard Control Devices     product component Hand-Off-Auto selector switch   Y     type of Hand-Off-Auto selector switch   3     product component start push button   Y     type of start push button   Y     type of start push button   3     Mounting/wiring   Y     mounting position   Y     fastening method   S     type of electrical connection for supply voltage line-side   E     tightening torque [lbf-in] for supply   3     type of connectable conductor cross-sections at line-side for   1     AWG cables single or multi-stranded   7     temperature of the conductor for supply maximum permissible   7	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C			
Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     type of start push button     type of start push button     mounting/wiring     mounting position     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     remerative of the conductor for supply	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU			
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Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     type of start push button     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 cross-sections for AWG cables     type of connectable conductor cross-sections for AWG cables     for load-side outgoing feeder     stightening torque [lbf-in] for load-side outgoing feeder     tope 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 cross-sections for AWG cables     for load-side outgoing feeder single or multi-stranded     temperature of the conductor for load-side outgoing feeder     for load-side outgoing feeder single or multi-stranded     temperature of the conductor for load-side outgoing feeder     for load-side outgoing feeder single or multi-s	30mm metal housing with matte finish Yes 30mm metal housing with matte finish 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)			
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Standard Control Devices     product component Hand-Off-Auto selector switch     type of Hand-Off-Auto selector switch     product component start push button     type of start push button     type of start push button     Mounting/wiring     mounting position     fastening method     type of connectable conductor 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     Atype of connectable conductor for supply     Atype of connectable conductor 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 electrical connection for load-side outgoing feeder     type of electrical connection of ma	30mm metal housing with matte finish Yes 30mm metal housing with matte finish 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			
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Standard Control Devices     product component Hand-Off-Auto selector switch   Y     type of Hand-Off-Auto selector switch   3     product component start push button   Y     type of start push button   3     Mounting/wiring   3     mounting position   Y     fastening method   5     type of electrical connection for supply voltage line-side   E     tightening torque [lbf-in] for supply   3     type of connectable conductor cross-sections at line-side for   1     AWG cables single or multi-stranded   4     temperature of the conductor for supply maximum permissible   7     material of the conductor for supply   A     type of electrical connection for load-side outgoing feeder   3     type of connectable conductor cross-sections for AWG cables   1     for load-side outgoing feeder single or multi-stranded   1     temperature of the conductor for load-side outgoing feeder   7     maximum permissible   7     maximum permissible   7     maximum permissible   7     maximum permissible   7     temperature of the conductor for load-side outgoing feeder   7	30mm metal housing with matte finish Yes 30mm metal housing with matte finish 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 5 12 lbf-in 2x (16 12 AWG)			
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maximum permissible	
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
Further information	

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

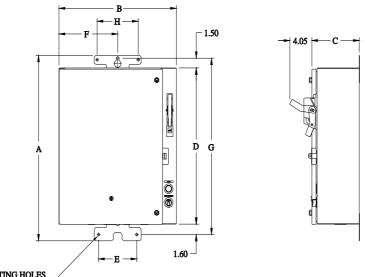
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

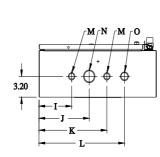
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUE6LA

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUE6LA&lang=en

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:87DUE6LA/certificate



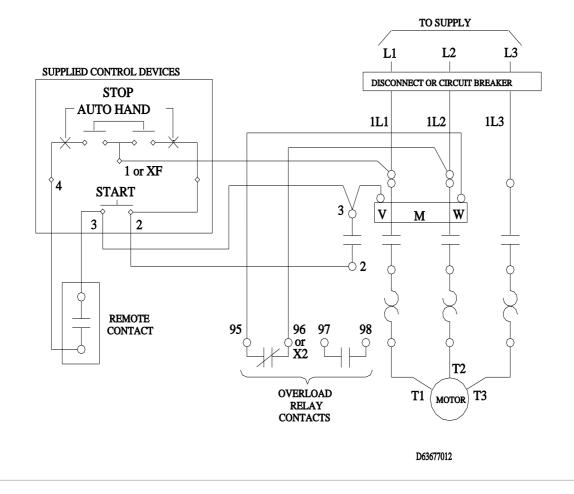
MOUNTING HOLES FOR  $\frac{5}{16}$ " HARDWARE



OUTLIN	E DIMEN	SIONS					
Α	В	С					
28.50	20.00	8.06					
MOUNT	TING DIM	ENSIONS					
D	E	F	G	H			
24.00	6.50	10.00	27.10	7.00			
CONDUIT KNOCKOUTS							
I	J	K	L	М	N	0	
5.50	8.50	11.50	14.50	1.12875	1.96-1.71	1.35-1.12	

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