## **SIEMENS**

Data sheet US2:87DUE6LC



Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 220-240/440-480VAC 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				
weight [lb]	47 lb			
Height x Width x Depth [in]	29 × 20 × 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			
<ul><li>at 220/230 V rated value</li></ul>	7.5 hp			
<ul><li>at 460/480 V rated value</li></ul>	0 hp			
<ul><li>at 575/600 V rated value</li></ul>	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	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				
<ul> <li>at DC rated value</li> </ul>	0 0 V			
<ul> <li>at AC at 50 Hz rated value</li> </ul>	0 0 V			
at AC at 60 Hz rated value	220 480 V			
holding power at AC minimum	8.6 W			

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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-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 (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 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	5A@600VAC (B600), 1A@250VDC (R300)			
UL				
UL	600 V			
UL insulation voltage (Ui)	600 V 300 V			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value				
UL insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value				
UL insulation voltage (Ui)  ■ with single-phase operation at AC rated value  ■ with multi-phase operation at AC rated value  Disconnect Switch	300 V			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  Disconnect Switch response value of switch disconnector	300 V 30A / 250V			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  Disconnect Switch response value of switch disconnector design of fuse holder	300 V  30A / 250V  Class H fuse clips			
UL insulation voltage (Ui)  ■ with single-phase operation at AC rated value ■ 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  30A / 250V  Class H fuse clips			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value • 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  30A / 250V  Class H fuse clips  Class H, K and R			
UL insulation voltage (Ui)  ■ with single-phase operation at AC rated value ■ 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  30A / 250V  Class H fuse clips  Class H, K and R  NEMA Type 3R			
UL insulation voltage (Ui)  ■ with single-phase operation at AC rated value ■ 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  30A / 250V  Class H fuse clips  Class H, K and R  NEMA Type 3R			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value • 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  Standard Control Devices	300 V  30A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value • 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  Standard Control Devices product component Hand-Off-Auto selector switch	300 V  30A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value • 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  Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch	300 V  30A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use  Yes 30mm metal housing with matte finish			
UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • 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  Standard Control Devices  product component Hand-Off-Auto selector switch  type of Hand-Off-Auto selector switch  product component start push button	300 V  30A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use  Yes 30mm metal housing with matte finish Yes			
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UL insulation voltage (Ui) • with single-phase operation at AC rated value • 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  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	30A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use  Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish  Vertical Surface mounting and installation			
UL insulation voltage (Ui)  • with single-phase operation at AC rated value • 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  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	300 V  30A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use  Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish			
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UL insulation voltage (Ui) • with single-phase operation at AC rated value • 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  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	300 V  30A / 250V Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use  Yes 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)			
UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • 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  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  material of the conductor for supply	300 V  Class H fuse clips Class H, K and R  NEMA Type 3R Weather proof for outdoor use  Yes 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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type of connectable conductor cross-sections of magnet coil for 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 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		
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=US2:87DUE6LC

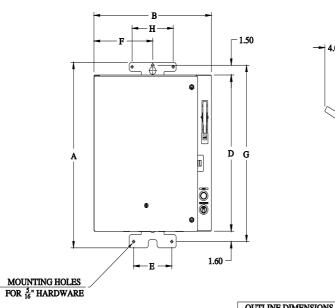
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

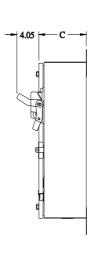
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUE6LC

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUE6LC&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUE6LC&lang=en</a>

Certificates/approvals

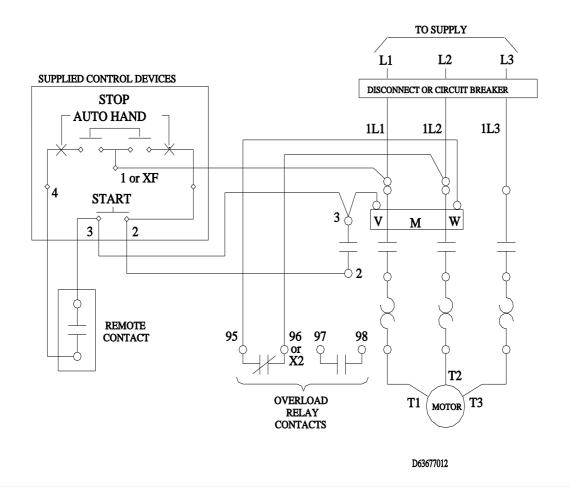
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUE6LC/certificate





OUTLIN	IE DIWEN	SIONS						
A	В	C						
28.50	20.00	8.06						
MOUNT	ING DIM	ENSIONS						
D	Е	F	G	H				
24.00	6.50	10.00	27.10	7.00				
CONDUIT KNOCKOUTS								
I	J	K	L	M	N	0		
5.50	8.50	11.50	14.50	1.12875	1.96-1.71	1.35-1.12		

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