## SIEMENS

## Data sheet

## US2:87DUB6FH

Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 380-440/440-480V 50/60Hz coil, Standard type contactor, 30A fusible disconnect, 30A/600V 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
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
<ul> <li>during operation</li> </ul>	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
<ul> <li>during operation</li> </ul>	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	0 hp
• at 220/230 V rated value	0 hp
• at 460/480 V rated value	1 hp
• at 575/600 V rated value	1 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	380 440 V
• at AC at 60 Hz rated value	440 480 V
holding power at AC minimum	8.6 W

apparent pick up power of magnet coil at AC	218 VA
apparent pick-up power of magnet coil at AC	
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
<ul> <li>phase failure detection</li> </ul>	Yes
<ul> <li>asymmetry detection</li> </ul>	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 (factory set) / 20 / 30
adjustable current response value current of the current- dependent overload release	0.75 3.4 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	1A
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
• with multi-phase operation at AC rated value	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 Class H fuse clips
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link	30A / 600V Class H fuse clips
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R
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 Class H fuse clips Class H, J (retrofittable), K and R NEMA Type 3R
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 Class H fuse clips Class H, J (retrofittable), K and R NEMA Type 3R
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	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor 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         Standard Control Devices         product component Hand-Off-Auto selector switch	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use
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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           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	30A / 600V Class H fuse clips Class H, J (retrofittable), 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
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	30A / 600V Class H fuse clips Class H, J (retrofittable), 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 Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish
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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=US2:87DUB6FH

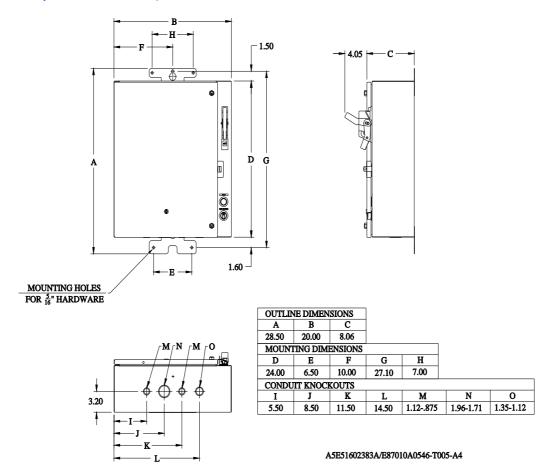
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

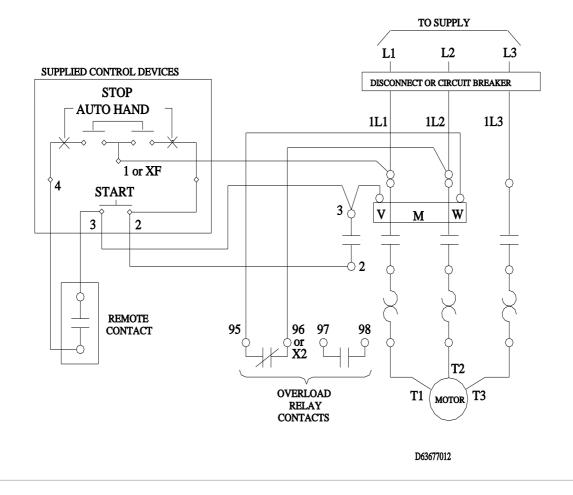
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUB6FH

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUB6FH&lang=en

Certificates/approvals

https://support.industry.s iemens.com/cs/US/en/ps/US2:87DUB6FH/certificate





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