## **SIEMENS**

Data sheet US2:87DUC6FG



Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 190-220/220-240V 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

nyadyot hyand nama	Class 97				
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]					
<ul><li>during storage</li></ul>	-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					
<ul><li>at 200/208 V rated value</li></ul>	0 hp				
• at 220/230 V rated value	0 hp				
<ul> <li>at 460/480 V rated value</li> </ul>	5 hp				
<ul> <li>at 575/600 V rated value</li> </ul>	5 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	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	190 220 V				
at AC at 60 Hz rated value	220 240 V				
holding power at AC minimum	8.6 W				

annount piet up pourer of annount out of A.A.	240 \/A		
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			
<ul> <li>overload protection</li> </ul>	Yes		
<ul> <li>phase failure detection</li> </ul>	Yes		
<ul> <li>asymmetry detection</li> </ul>	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	3 12 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 UL	5A@600VAC (B600), 1A@250VDC (R300)		
insulation voltage (Ui)			
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V		
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
with multi-phase operation at AC rated value	300 V		
- · · · · · · · · · · · · · · · · · · ·	300 V		
with multi-phase operation at AC rated value	300 V 30A / 600V		
with multi-phase operation at AC rated value     Disconnect Switch     response value of switch disconnector     design of fuse holder			
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	30A / 600V		
with multi-phase operation at AC rated value     Disconnect Switch     response value of switch disconnector     design of fuse holder	30A / 600V Class H fuse clips		
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	30A / 600V Class H fuse clips		
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	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R		
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	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R  NEMA Type 3R		
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	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R  NEMA Type 3R		
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	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R  NEMA Type 3R Weather proof for outdoor use		
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	30A / 600V Class H fuse clips Class H, J (retrofittable), K and R  NEMA Type 3R Weather proof for outdoor use		
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	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		
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	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		
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	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		
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	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		
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	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		
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 / 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		
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	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		
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	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 35 35 lbf·in		
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	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 35 35 lbf·in 1x (14 2 AWG)		
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 maximum permissible	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 35 35 lbf·in 1x (14 2 AWG)		
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	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 35 35 lbf·in 1x (14 2 AWG)  75 °C AL or CU		
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  type of electrical connection for load-side outgoing feeder	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 35 35 lbf-in 1x (14 2 AWG)  75 °C AL or CU Screw-type terminals		
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 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	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 35 35 lbf-in 1x (14 2 AWG)  75 °C AL or CU Screw-type terminals 35 35 lbf-in		
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 maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder	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 35 35 lbf-in 1x (14 2 AWG)  75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG)		
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 maximum permissible  material of the conductor 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  maximum permissible	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 35 35 lbf-in 1x (14 2 AWG)  75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG)		

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=US2:87DUC6FG

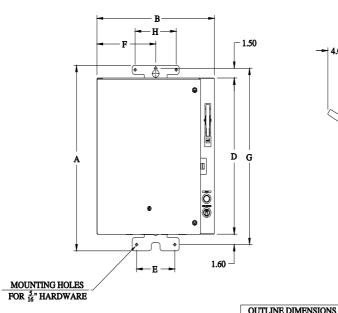
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

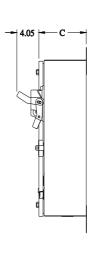
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUC6FG

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=US2:87DUC6FG&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUC6FG&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:87DUC6FG/certificate





OUILI		DIOM					
Α	В	С					
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	

A5E51602383A/E87010A0546-T005-A4

last modified: 1/25/2022 🖸