SIEMENS

US2:87DUC6LC **Data sheet**



Figure similar

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

design of the product special product feature ESP200 overload relay; Dual voltage coil Seneral teature ESP200 overload relay; Dual voltage coil Seneral teature Weight [lb] Height x Width x Depth [in] touch protection against electrical shock Installation altitude [ft] at height above sea level maximum ambient temperature [°F] of uning storage of during operation ambient temperature of uning storage of uning operation ambient temperature of uning storage of uning operation arbient temperature of uning storage of uning operation arbient temperature of uning operation arbient temperature of uning storage of uning operation arbient temperature of uning storage of uning operation usa Visided mechanical performance [hp] for 3-phase AC motor out of storage of at 200/208 V rated value of at 220/230 V rated value of at 480/480 V rated value of at 480/480 V rated value of the formation of NC contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational current at AC at 600 V rated value operation of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage control supply voltage AC	product brand name	Class 87
weight [b] 47 lb Height x Width x Depth [in] 29 × 20 × 8 in touch protection against electrical shock NA for enclosed products installation attitude [ft] at height above sea level maximum ambient temperature [°F] 4 utring storage 50 utring storage 72 utring storage 72 utring storage 73 utring operation 74 utring storage 75 utring operation 75 u	design of the product	Pump control panel with fused disconnect switch
weight [lb] 47 lb Height x Width x Depth [in] 29 x 20 x 8 in touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature ["F] • during storage -22 +149 "F ambient temperature • during operation -4 +104 "F ambient temperature • during operation -20 +40 "C country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/228 V rated value 2 hp • at 220/230 V rated value 2 hp • at 460/480 V rated value 0 hp • at 575/600 V rated value 0 hp Size of contactor number of NC contacts for main contacts operating operation and contacts by pical mechanical service life (switching cycles) of the main contacts at contacts at contacts of ro auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contacts for main contacts on number of NC contacts at contacts for maximum 8 contact rating of auxiliary contacts at contact for for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contact number of NC contacts at contact or for auxiliary contact number of NC contacts at contact or fo	special product feature	ESP200 overload relay; Dual voltage coil
Height x Width x Depth [in]	General technical data	
touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage	weight [lb]	47 lb
Installation altitude [ft] at height above sea level maximum ambient temperature [*F] • during storage • during operation -4+104 *F ambient temperature • during storage • during operation -30+65 *C -20+40 *C country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 4575/600 V rated value • at 4575/600 V rated value • at 575/600 V rated value Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 27 A mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary c	Height x Width x Depth [in]	29 × 20 × 8 in
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yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value	during operation	-20 +40 °C
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 420/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • 0 hp • at 575/600 V rated value O hp Contactor size of contactor number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 27 A mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum service in the following cycles of the control supply voltage 10A@600VAC (A600), 5A@600VDC (P600) type of voltage of the control supply voltage AC	country of origin	USA
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number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage O 10A@600VAC (A600), 5A@600VDC (P600)	, , ,	10000000
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number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 1 10A@600VAC (A600), 5A@600VDC (P600) AC	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 10A@600VAC (A600), 5A@600VDC (P600) AC	number of NO contacts at contactor for auxiliary contacts	1
to UL Coil type of voltage of the control supply voltage AC	number of total auxiliary contacts maximum	8
type of voltage of the control supply voltage AC		10A@600VAC (A600), 5A@600VDC (P600)
Sherr radio and restriction of the state of	Coil	
control supply voltage	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	220 480 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-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	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)	
 with single-phase operation at AC rated value 	600 V
with multi-phase operation at AC rated value	300 V
Disconnect Switch	
response value of switch disconnector	30A / 250V
design of fuse holder	Class H fuse clips
operating class of the fuse link	Class H, K and R
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA Type 3R
design of the housing	Weather proof for outdoor use
Standard Control Devices	
product component Hand-Off-Auto selector switch	Yes
type of Hand-Off-Auto selector switch	30mm metal housing with matte finish
product component start push button	Yes
type of start push button	30mm metal housing with matte finish
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
tightening torque [lbf·in] for supply	35 35 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (14 2 AWG)
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	AL or CU
type of electrical connection for load-side outgoing feeder	Screw-type terminals

	05 05 11 5
tightening torque [lbf·in] for load-side outgoing feeder	35 35 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil at 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 at 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 at 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=US2:87DUC6LC

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:87DUC6LC

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87DUC6LC&lang=en

Certificates/approvals

 $\underline{https://support.industry.siemens.com/cs/US/en/ps/US2:87DUC6LC/certificate}$

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