SIEMENS

Data sheet

US2:22DUC32BJ



Reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 24VAC 50-60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

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product brand name	Class 22			
design of the product	Full-voltage reversing motor starter			
special product feature	ESP200 overload relay			
General technical data				
weight [lb]	23 lb			
Height x Width x Depth [in]	20 × 12 × 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				
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				
• at 200/208 V rated value	2 hp			
• at 220/230 V rated value	2 hp			
• at 460/480 V rated value	5 hp			
• at 575/600 V rated value	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 (switching 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 AC at 50 Hz rated value 	24 V
at AC at 60 Hz rated value	24 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 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 / 20 (factory set) / 30
adjustable current response value current of the current- dependent overload release	3 12 A
make time with automatic start after power failure 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	1
relay	
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
Enclosure	
degree of protection NEMA rating	1
design of the housing	indoors, usable on a general basis
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf-in] for supply	35 35 lbf in
type of connectable conductor cross-sections at line-side	1x (14 2 AWG)
at AWG cables single or multi-stranded 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
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	2x (16 12 AWG)

coil at AWG cables single or multi-stranded					
temperature of the conductor at magnet coil maximum permissible	75 °C				
material of the conductor at magnet coil	CU				
type of electrical connection 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)				
design of the short-circuit trip	Thermal magnetic circuit breaker				
breaking capacity maximum short-circuit current (Icu)					
• at 240 V	14 kA				
• at 480 V	10 kA				
• at 600 V	10 kA				
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14				
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=US2:22DUC32BJ					
Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
https://support.industry.siemens.com/cs/US/en/ps/US2:22DUC32BJ					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22DUC32BJ⟨=en					
Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:22DUC32BJ/certificate					

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