## SIEMENS

## Data sheet

## US2:22DUD320F



Reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Standard width enclosure

Figure	SIMI	lar
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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]	17 lb
Height x Width x Depth [in]	13 × 13 × 5 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	3 hp
• at 220/230 V rated value	3 hp
<ul> <li>at 460/480 V rated value</li> </ul>	10 hp
• at 575/600 V rated value	10 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	

	10 V
	20 V
	9.6 W
	18 VA
	5 VA
operating range factor control supply voltage rated value 0 of magnet coil	0.85 1.1
percental drop-out voltage of magnet coil related to the 5 input voltage	0 %
ON-delay time 1	9 29 ms
OFF-delay time 1	0 24 ms
Overload relay	
product function	
overload protection     Y	/es
phase failure detection     Y	/es
asymmetry detection     Y	/es
ground fault detection     Y	/es
test function     Y	/es
• external reset Y	/es
reset function N	Nanual, automatic and remote
trip class C	CLASS 5 / 10 / 20 (factory set) / 30
	6.5 22 A
	S S
	%
	/es
number of NC contacts of auxiliary contacts of overload 1	
relay	
number of NO contacts of auxiliary contacts of overload 1 relay	
operational current of auxiliary contacts of overload relay	
	Ā
• at DC at 250 V 1	A
contact rating of auxiliary contacts of overload relay 5	A@600VAC (B600), 1A@250VDC (R300)
according to UL	
insulation voltage (Ui)	
• with single-phase operation at AC rated value 6	500 V
• with multi-phase operation at AC rated value 3	900 V
Enclosure	
degree of protection NEMA rating 1	2
design of the housing d	lustproof and drip-proof for indoor use
Mounting/wiring	
mounting position V	/ertical
fastening method S	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf·in] for supply 3	5 35 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	x (14 2 AWG)
	'5 °C
material of the conductor for supply A	AL or CU
	Screw-type terminals
	5 35 lbf in
	x (14 2 AWG)
Stranded	
	′5 °C
temperature of the conductor for load-side outgoing feeder 7 maximum permissible	/5 °C \L or CU
temperature of the conductor for load-side outgoing feeder7maximum permissiblematerial of the conductor for load-side outgoing feederA	
temperature of the conductor for load-side outgoing feeder maximum permissible7material of the conductor for load-side outgoing feederAtype of electrical connection of magnet coilS	AL or CU

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)		

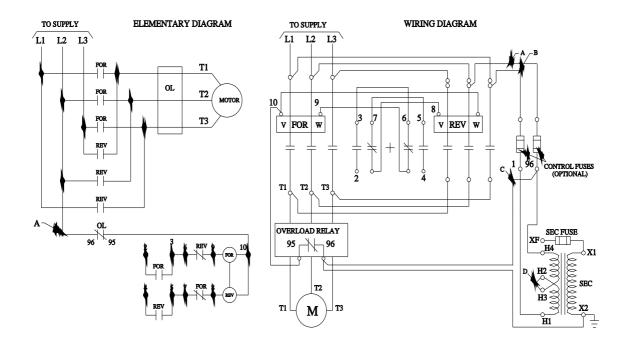
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22DUD320F

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22DUD320F

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22DUD320F&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22DUD320F/certificate



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