SIEMENS

Data sheet

US2:22MPX32AD



Reversing motor starter Size 6 Three phase full voltage Solid-state overload relay OLRelay amp range 160-630A 200-220V 50-60HZ/DC coil Non-combination type Enclosure type (open)

product brand name	Class 22
design of the product	Full-voltage reversing motor starter
General technical data	
weight [lb]	60 lb
touch protection against electrical shock	Main circuit (not finger-safe); Control circuit (finger-safe)
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	150 hp
• at 220/230 V rated value	200 hp
• at 460/480 V rated value	400 hp
• at 575/600 V rated value	400 hp
Contactor	
size of contactor	NEMA controller size 6
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	540 A
mechanical service life (operating cycles) of the main contacts typical	1000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	2
number of NO contacts at contactor for auxiliary contacts	2
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@240VAC (A300), 2.5A@250VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC/DC
control supply voltage	
• at DC rated value	200 220 V
• at AC at 50 Hz rated value	200 220 V
• at AC at 60 Hz rated value	200 220 V
holding power at AC minimum	10 W

operating range factor control supply voltage rated value of magnet col percential drop-out voltage of magnet col related to the input voltage 60 % ON-day time 45 100 ms OP-Fradely time 60 100 ms OP-Fradely time 60 100 ms OP-related transport Yes • overload protection Yes • overload protection Yes • saymetry detection No reset function Menual and automatic frip class CLASS 20 product fasture protective coating on printed circuit bacat No number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of	apparent holding power of magnet coil at AC	9.2 VA
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tightening torque [lbf-in] for load-side outgoing feeder180 220 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded2x 2/0 AWG 500 MCMtemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederCUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil7 10 lbf-intype of connectable conductor at magnet coil maximum75 °Ctemperature of the conductor dromagnet coil at AWG cables single or multi-stranded7 10 lbf-intype of electrical connection of magnet coil at AWG cables single or multi-stranded2x (18 14 AWG)type of electrical connection for auxiliary contactsCUtype of electrical connection for auxiliary contactsCu		
tightening torque [lbf-in] for load-side outgoing feeder180 220 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded2x 2/0 AWG 500 MCMtemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederCUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil7 10 lbf-intype of connectable conductor at magnet coil maximum75 °Ctemperature of the conductor dromagnet coil at AWG cables single or multi-stranded7 10 lbf-intype of electrical connection of magnet coil at AWG cables single or multi-stranded2x (18 14 AWG)type of electrical connection for auxiliary contactsCUtype of electrical connection for auxiliary contactsCu		
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material of the conductor for load-side outgoing feederCUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil7 10 lbf·intype of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded2x (18 14 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection for auxiliary contactsScrew-type terminalstightening torque [lbf·in] at contactor for auxiliary contacts7 10 lbf·in	temperature of the conductor for load-side outgoing feeder	75 °C
type of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil7 10 lbf-intype of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded2x (18 14 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection for auxiliary contactsScrew-type terminalstightening torque [lbf-in] at contactor for auxiliary contacts7 10 lbf-in		CU
tightening torque [lbf·in] at magnet coil7 10 lbf·intype of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded2x (18 14 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection for auxiliary contactsScrew-type terminalstightening torque [lbf·in] at contactor for auxiliary contacts7 10 lbf·in		
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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 7 10 lbf-in	type of connectable conductor cross-sections of magnet coil at	2x (18 14 AWG)
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 7 10 lbf·in	temperature of the conductor at magnet coil maximum	75 °C
type of electrical connection for auxiliary contacts Screw-type terminals tightening torque [lbf-in] at contactor for auxiliary contacts 7 10 lbf-in	•	CU
tightening torque [lbf·in] at contactor for auxiliary contacts 7 10 lbf·in	•	
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded 2x (20 16 AWG), 2x (18 14 AWG)		
temperature of the conductor at contactor for auxiliary contacts 75 °C	51	
material of the conductor at contactor for auxiliary contacts CU	AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts	75 °C
type of electrical connection at overload relay for auxiliary Screw-type terminals	AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible	

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	18kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	18 kA
• at 480 V	18 kA
• at 600 V	18 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=US2:22MPX32AD

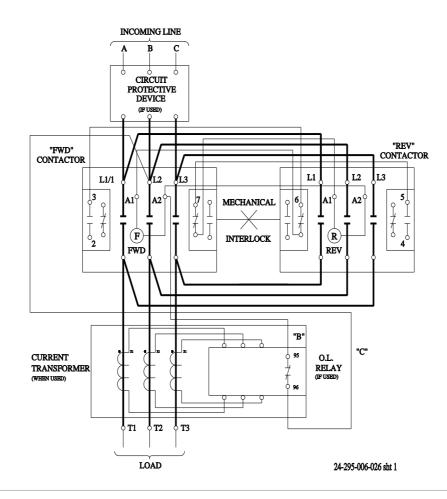
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:22MPX32AE

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22MPX32AD&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22MPX32AD/certificate



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