SIEMENS

Data sheet

US2:22FP32BF81



Reversing motor starter, Size 2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 45A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use

product brand name Class 14 & 22 design of the product Full-voltage reversing motor starter (General technical data	Figuresimilar	
Ceneral technical data weight [b] 24.8 lb Height x Width x Depth [n] 20 × 12 × 8 in touch protection against electrical shock NA for enclosed products installation altitude [f] at height above sea level maximum 6500 ft ambient temperature [F] - • during operation 4+104 "F • during operation +40 "C • during operation -20+40 "C • ouring storage -30+65 "C • ouring storage -30+65 "C • ouring storage -30+60 "C • at 200/208 V rated value 10 hp • at 575/600 V rated value 5 hp • at 60/480 V rated value <td< td=""><td>product brand name</td><td>Class 14 & 22</td></td<>	product brand name	Class 14 & 22
weight [b] 24.8 lb Height x Width x Depth [m] 20 × 12 × 8 in touch protection against electrical shock NA for enoised products installation altitude [ft] at height above sea level maximum 6560 ft ambient temperature [FT] -22 +149 "F • during operation -4 +104 "F ambient temperature -30 +66 "C • during operation -20 +40 "C • during op	design of the product	Full-voltage reversing motor starter
Height x Width x Depth [in] 20 × 12 × 8 in touch protection against electrical shock NA for enclosed products installation altidue [it] at height above sea level maximum 6560 ft ambient temperature [F] -22 +149 "F • during operation -4 +104 "F ambient temperature -4 +104 "F • during storage -30 +65 "C • during operation -22 +40 "C • during operation -20 +40 "C country of origin USA Horsepower ratings -30 +65 "C • during operation -25 +40 "C • at 200/208 V rated value 10 hp • at 220/230 V rated value 15 hp • at 420/230 V rated value 25 hp • at 420/230 V rated value 25 hp • at 460/480 V rated value 25 hp operating voltage for main contacts 3 operating voltage for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V mumber of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor	General technical data	
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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 7 contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) Coil 10A@convAC (A600), 5A@convDC (P600) control supply voltage AC e at AC at 50 Hz rated value 110 V e at AC at 60 Hz rated value 120 V holding power at AC minimum 8.6 W		1000000
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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 AC • at AC at 50 Hz rated value 110 V • at AC at 60 Hz rated value 120 V holding power at AC minimum 8.6 W	number of NO contacts at contactor for auxiliary contacts	1
Coil type of voltage of the control supply voltage AC control supply voltage 110 V • at AC at 50 Hz rated value 110 V • at AC at 60 Hz rated value 120 V holding power at AC minimum 8.6 W	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltageACcontrol supply voltage	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage• at AC at 50 Hz rated value110 V• at AC at 60 Hz rated value120 Vholding power at AC minimum8.6 W	Coil	
• at AC at 50 Hz rated value 110 V • at AC at 60 Hz rated value 120 V holding power at AC minimum 8.6 W	type of voltage of the control supply voltage	AC
• at AC at 60 Hz rated value 120 V holding power at AC minimum 8.6 W	control supply voltage	
holding power at AC minimum 8.6 W	• at AC at 50 Hz rated value	110 V
	• at AC at 60 Hz rated value	120 V
apparent pick-up power of magnet coil at AC 218 VA	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	0.85 1.1
magnet coil	
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
• test function	Yes
external reset	Yes
reset function	Manual and automatic
adjustment range of thermal overload trip unit	0.85 1.15
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	0
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	10 A
● at DC at 250 V	5 A
contact rating of auxiliary contacts of overload relay according to	10A@600VAC (A600), 5A@250VDC (P300)
UL	
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	Box lug
tightening torque [lbf·in] for supply	45 45 lbf·in
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 50 lbf·in
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 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	5 12 lbf·in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded	2x (16 12 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
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	14 kA
● at 480 V	10 kA
• at 600 V certificate of suitability	10 kA 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) all.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22FP32BF81 https://m

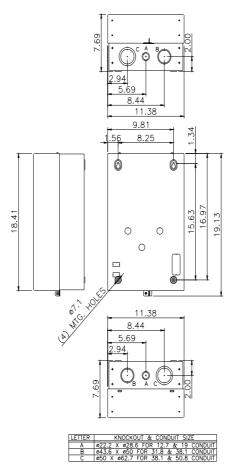
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22FP32BF81

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22FP32BF81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22FP32BF81/certificate





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