SIEMENS

Data sheet US2:22IP32BC81



Reversing motor starter, Size 3 1/2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 115A, Non-combination type, Enclosure type 1, Indoor general purpose use

Figure similar

product brand name Class 14 & 22 design of the product Full-voltage reversing motor starter special product feature		
special product feature Ceneral technical data weight [Ib] Height x Width x Depth [in] 100-ub protection against electrical shock Installation altitude [ft] at height above sea level maximum 10560 ft ambient temperature [*F] 4 during storage 5 during operation 100-ub origin 100	product brand name	Class 14 & 22
weight [b] 38.5 lb Height X Width X Depth [in] 25 × 14 × 9 in touch protection against electrical shock NA for enclosed products installation altitude [it] 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 +46 °C country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 30 hp • at 460/480 V rated value 75 hp • at 1575/600 V rated value 75 hp Contactor Size of contactor for main contacts 30 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 115 A mechanical service life (operating cycles) of the main contacts 50 0000000000000000000000000000000000	design of the product	Full-voltage reversing motor starter
weight [b] Height x Width x Depth [in] 25 x 14 x 9 in touch protection against electrical shock Installation attitude [ft] at height above sea level maximum Afor enclosed products Installation attitude [ft] at height above sea level maximum Afor enclosed products Installation attitude [ft] at height above sea level maximum Afor enclosed products Installation attitude [ft] at height above sea level maximum Afor enclosed products Installation attitude [ft] at height above sea level maximum Afor enclosed products Installation attitude [ft] at height above sea level maximum Afor enclosed products Installation attitude [ft] at height above sea level maximum Afor enclosed products Installation attitude [ft] at height above sea level maximum Afor enclosed products -22 +40 °F -22 +40 °F -23 +40 °C -25 +40 °C -25 +40 °C -25 +40 °C -25 +40 °C -26 +40 °C -27 +40 °C -28 +40 °C -28 +40 °C -29 +40 °C -20 +40 °C -40 +40 °C -4		Half-size starter; Dual voltage coil
Height x Width x Depth [in] touch protection against electrical shock installation altitude [ft] at height above sea level maximum 6660 ft ambient temperature [*F] • during storage • during operation • 4 +104 *F • during storage • during operation • during storage • during operation • during storage • during operation • country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 270/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 675/600 V rated value • at 75/600 V rated value Size of contactor size of contactor Controls for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value poperational current at accordant of contacts of contacts of contacts of contacts of contactor of according to UL. public of total auxiliary contacts of contactor according to UL. public of total auxiliary contacts of contactor according to UL. public of total auxi	General technical data	
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yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 260/208 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value To hp contactor size of contacts for main contacts so operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 115 A mechanical service life (operating cycles) of the main contacts yipical Auxiliary contact number of NO contacts at contactor for auxiliary contacts 10 number of NO contacts at contactor for auxiliary contacts 11 number of NO contacts at contactor for auxiliary contacts 12 number of NO contacts at contactor for auxiliary contacts 13 number of NO contacts at contactor for auxiliary contacts 14 number of NO contacts at contactor for auxiliary contacts 15 number of total auxiliary contacts maximum 17 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum 14 W	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 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Contactor 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 115 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 220 480 V holding power at AC minimum 14 W	country of origin	USA
at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value responsible to the value at 460/480 V rated value responsible to the v	Horsepower ratings	
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otatotor 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 mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rocontact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage at AC at 60 Hz rated value at AC at 60 Hz rated value at AC minimum 75 hp Control supply voltage at AC at 60 Hz rated value 115 A 600 V 115 A 5000000 115 A 5000000 115 A 5000000 116 A 117 A 118 A 119 A 110 A 11	• at 220/230 V rated value	40 hp
Size of contactor 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 operational service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts 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 type of voltage of the control supply voltage • at AC at 60 Hz rated value holding power at AC minimum 1 Control supply voltage 220 480 V holding power at AC minimum 1 Control supply voltage 1 Control supply voltage 220 480 V	• at 460/480 V rated value	75 hp
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 operational service life (operating cycles) of the main contacts typical Auxiliary contact 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 type of voltage of the control supply voltage • at AC at 60 Hz rated value holding power at AC minimum Control supply voltage 14 W	● at 575/600 V rated value	75 hp
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 mechanical service life (operating cycles) of the main contacts typical Auxiliary contact 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 Total contact rating of the control supply voltage at AC at 60 Hz rated value holding power at AC minimum 115 A 5000000 105 106 107 108 108 109 109 100 100 100 100	Contactor	
operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rontact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value AC holding power at AC minimum 600 V 600 V	size of contactor	Controller half size 3 1/2
maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rountact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage	number of NO contacts for main contacts	3
mechanical service life (operating cycles) of the main contacts typical Auxiliary contact 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 • at AC at 60 Hz rated value holding power at AC minimum 5000000 1000000 1000000000000000000		600 V
Auxiliary contact 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 type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum AC contacts at contactor for auxiliary contacts 1 10A@600VAC (A600), 5A@600VDC (P600) AC 220 480 V holding power at AC minimum 14 W	operational current at AC at 600 V rated value	115 A
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 type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum onumber of NC contacts at contactor for auxiliary contacts 1 10A@600VAC (A600), 5A@600VDC (P600) AC control supply voltage o at AC at 60 Hz rated value 14 W		5000000
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 type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum 10A@600VAC (A600), 5A@600VDC (P600) AC 220 480 V holding power at AC minimum 14 W	Auxiliary contact	
number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage output at AC at 60 Hz rated value holding power at AC minimum 7 10A@600VAC (A600), 5A@600VDC (P600) AC 220 480 V holding power at AC minimum 7 20A	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum 10A@600VAC (A600), 5A@600VDC (P600) AC 220 480 V holding power at AC minimum	number of NO contacts at contactor for auxiliary contacts	1
type of voltage of the control supply voltage control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum 14 W	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage control supply voltage outline at AC at 60 Hz rated value 220 480 V holding power at AC minimum 14 W	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage	Coil	
◆ at AC at 60 Hz rated value AC at 60 Hz rated value 220 480 V holding power at AC minimum 14 W	type of voltage of the control supply voltage	AC
holding power at AC minimum 14 W	control supply voltage	
	at AC at 60 Hz rated value	220 480 V
	holding power at AC minimum	14 W
	apparent pick-up power of magnet coil at AC	310 VA

apparent holding power of magnet coil at AC	26 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	26 41 ms
OFF-delay time	14 19 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	3
number of NO contacts of auxiliary contacts of overload relay	0
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	5 A
contact rating of auxiliary contacts of overload relay according to	5A@600VAC (B600), 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	120 120 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
	40.14
• at 600 V	10 kA

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=US2:22IP32BC81

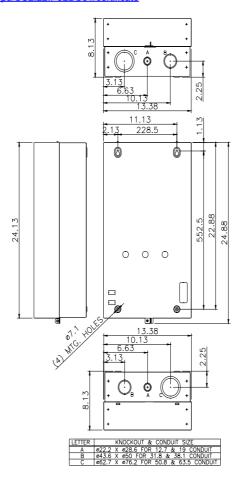
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22IP32BC81

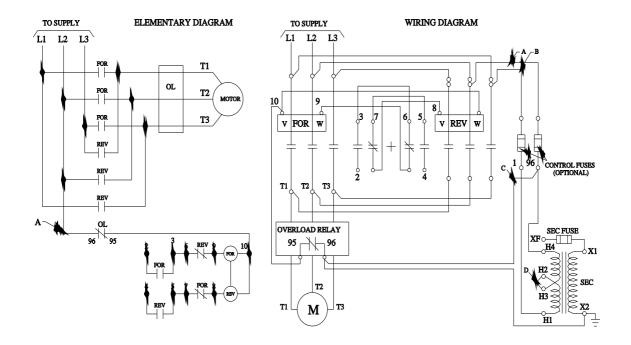
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22IP32BC81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22IP32BC81/certificate





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