SIEMENS

Data sheet US2:14IP82WA81



Non-reversing motor starter, Size 3 1/2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 115A, Non-combination type, Encl. type 4X 304 S. Steel, Water/dust tight noncorrosive

Figure similar

product brand name Class 14 & 22 Class 14 & 22 Class product feature Half-size starter; Dual voltage coll General technical data weight [1b] 48.5 lb 4		
special product feature Ceneral technical data weight [lb] Height X Width x Depth [in] Louch protection against electrical shock Installation altitude [ft] at height above sea level maximum ambient temperature [FT] • during storage • during operation ambient temperature • during storage • during operation ambient temperature • during storage • during operation author or origin WSA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 60 contactor size of contactor size of contactor for amin 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 AC at 600 V rated value and will are successed at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of tox Contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of tox Contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts 1 1 1 1 1 1	product brand name	Class 14 & 22
weight [b] 48.5 lb Height X Width X Depth [in] 26 × 13 × 8 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 420/230 V rated value 40 hp • at 460/480 V rated value 75 hp • at 575/600 V rated value 75 hp • at 575/600 V rated value 75 hp Contactor Size of contactor 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 50000000 Auxiliary contact rumber of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 2 number of NC auxiliary contacts 6 contactor according to UL number of NC auxiliary contacts 6 contactor according to UL number of NC auxiliary contacts 6 contactor according to UL number of NC auxiliary contacts 6 contactor according to UL numbe	design of the product	Full-voltage non-reversing motor starter
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Height x Width x Depth [in] 10	General technical data	
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ambient temperature • during storage • during operation -20 +40 °C 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 460/480 V rated value • at 4575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 60/480 V rated value • at 60/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 60/480 V rated value To hp Contactor size of contactor size of 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 NC contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 14 W	during storage	-22 +149 °F
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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 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value To hp 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 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 110 240 V holding power at AC minimum 14 W	country of origin	USA
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otal tor size of contactor size of contactor	• at 220/230 V rated value	40 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 recontact 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 Contactor of contactor according to UL 14 W	• at 460/480 V rated value	75 hp
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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 type of voltage of the control supply voltage at AC at 60 Hz rated value holding power at AC minimum 115 A 5000000 115 A 5000000 115 A 5000000 116 A 110 A 600 V 115 A 1000000 116 A 110 A 6000VAC (A600), 5A 6000VDC (P600)	Contactor	
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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 Coil type of voltage of the control supply voltage at AC at 60 Hz rated value holding power at AC minimum 115 A 5000000 0 100000 115 A 5000000 1000000 115 A 5000000 10000000 110000000000000000	number of NO contacts for main contacts	3
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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 control supply voltage o at AC at 60 Hz rated value 110 240 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 110 240 V holding power at AC minimum		5000000
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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 7 10A@600VAC (A600), 5A@600VDC (P600) AC control supply voltage 110 240 V 14 W	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 110 240 V 14 W	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 holding power at AC minimum AC AC 110 240 V	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage control supply voltage	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 110 240 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	110 240 V
	holding power at AC minimum	14 W
		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	AV 004 steichers steel
degree of protection NEMA rating	4X, 304 stainless steel
design of the housing	Extra-wide
design of the housing	dustproof, waterproof & resistant to corrosion
Mounting/wiring	Vadial
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 75 °C
temperature of the conductor for supply maximum permissible 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 (lcu)	
• at 240 V	14 kA
• at 480 V	10 kA
• at 600 V	10 kA

Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

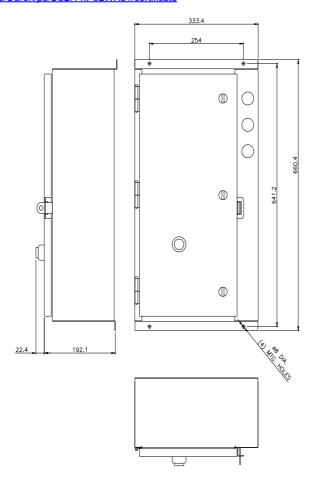
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14IP82WA81

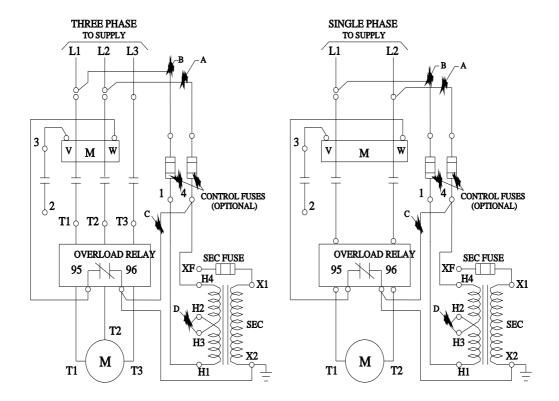
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14IP82WA81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14IP82WA81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14IP82WA81/certificate





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