SIEMENS

Data sheet

US2:14EP12WG81



Non-reversing motor starter, Size 1 3/4, Single Phase, 2-Pole, Amb. compensate bimetal OLR, Contactor amp rating 40A, Non-combination type, Encl. type 4X 304 S. Steel, Water/dust tight noncorrosive

Fig		

product brand name Class 14.8.22 design of the product Full-voltage non-reversing motor starter special product feature Half-size starter Central technical data		
special product feature Half-size starter General technical data	product brand name	Class 14 & 22
General technical data weight [b] 11 lb Height X Width X Depth [in] 13 × 8 × 5 in Iouch protection against electrical shock NA for enclosed products installation altitude [I] at height above sea level maximum 6560 ft ambient temperature ['F] -22 +149 "F • during storage -22 +149 "F • during storage -30 +65 °C • during versition -20 +40 °C country of origin USA Hosspowr ratings -30 +65 °C vielded mechanical performance [thp] for single-phase AC motor -115 V rated value • at 200/208 V rated value 5 hp Contractor Controller half size 1 3/4 rumber of NO contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz 240 V maximum 0000000 Auxiliary contact 1 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 1 <td>design of the product</td> <td>Full-voltage non-reversing motor starter</td>	design of the product	Full-voltage non-reversing motor starter
weight [b] 11 lb Height x Widh x Deph [n] 13 x 8 x 5 in touch protection against electrical shock NA for enclosed 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 [FT] -20 +40 "C • during operation -20 +40 "C country of origin USA Horspower ratings -30 +65 "C • el atring operation -20 +40 "C country of origin USA Horspower ratings -30 +65 "C • el atring operation -20 +40 "C e outring operation -20 +40 "C e outring operation -20 +40 "C vielded mechanical performance [hp] for single-phase AC motor - • at 202020 V rated value 5 hp Contactor Contactor number of NC contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz 240 V mechanical service life (operating cycles) of the main contacts 10000000 typical -20 +40 "C number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0<	special product feature	Half-size starter
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• during storage -30 +65 °C • during operation -20 +40 °C country of origin USA Horsepower ratings	during operation	-4 +104 °F
• during operation -20 +40 °C country of origin USA Horsepower ratings	ambient temperature	
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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 8 contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) Coil 1 type of voltage of the control supply voltage AC control supply voltage 1 • at AC at 50 Hz rated value 190 220 V • at AC at 60 Hz rated value 220 240 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 4 type of voltage of the control supply voltage AC control supply voltage 190 220 V • at AC at 50 Hz rated value 190 220 V • at AC at 60 Hz rated value 220 240 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 190 220 V • at AC at 50 Hz rated value 190 220 V • at AC at 60 Hz rated value 220 240 V holding power at AC minimum 8.6 W	number of total auxiliary contacts maximum	8
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 value190 220 V• at AC at 60 Hz rated value220 240 Vholding power at AC minimum8.6 W	Coil	
• at AC at 50 Hz rated value190 220 V• at AC at 60 Hz rated value220 240 Vholding power at AC minimum8.6 W	type of voltage of the control supply voltage	AC
• at AC at 60 Hz rated value 220 240 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	190 220 V
	• at AC at 60 Hz rated value	220 240 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	0.00 1.1
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	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	4X, 304 stainless steel
design of the housing	dustproof, waterproof & resistant to corrosion
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
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	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

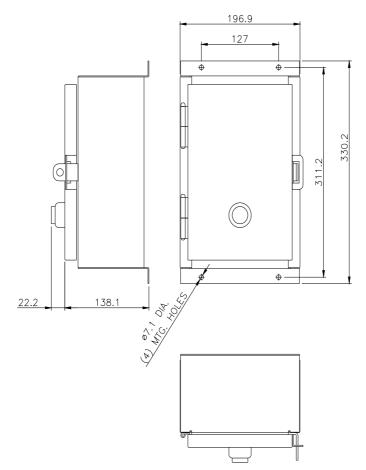
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14EP12WG81

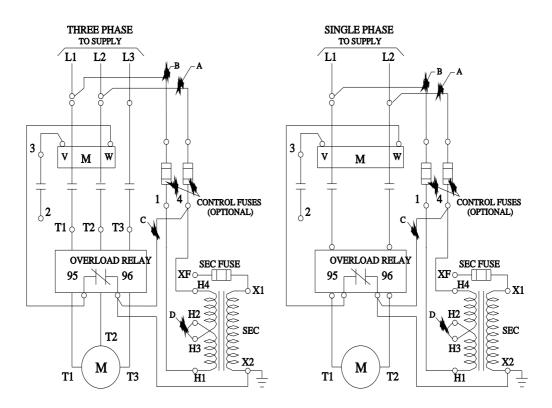
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14EP12WG81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14EP12WG81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14EP12WG81/certificate





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