SIEMENS

Data sheet US2:14FUG12AD



Non-reversing motor starter, Size 2, Single phase full voltage, Solid-state overload relay, OLRelay amp range 25-100A, 208VAC 60HZ coil, Non-combination type, Enclosure type (open), No enclosure

Figure similar

design of the product special product feature ESP200 overload relay General technical data weight [lb] 5 lb Height x Width x Depth [in] 8.13 × 5.75 × 4 in Not finger-safe installation altitude [ft] at height above sea level maximum ambient temperature [*F] 4 during storage 2.2 +149 *F 4 during operation 4 +104 *F ambient temperature 4 +104 *F ambient temperature 5 +40 *C 4 during operation 4 +40 *C country of origin Mexico Mexico Mexico Mexico Country of origin Mexico 1 to 15 hp Contactor size of contactor x trade value 7.5 hp 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 mechanical service infe (switching cycles) of the main contacts typical Auxillary contacts at contactor for auxillary contacts number of NC contacts at contactor for auxillary c	product brand name	Class 14
weight [lb] 5 lb Height x Width x Depth [in] 8.13 x 5.75 x 4 in touch protection against electrical shock Not finger-safe installation altitude [ft] at height above sea level maximum ambient temperature [°F] - during storage - 22 +149 °F - during storage - 22 +149 °F - during operation - 4 +104 °F - during operation - 20 +65 °C - during operation - 20 +40 °C - during operation - 20 operation operation operation operation operation of the operation operation of the operation of the operation of the operation of the operation operation of the operation operation of the operation operation of the operation opera	design of the product	Full-voltage non-reversing motor starter
Weight [ib]	special product feature	ESP200 overload relay
Height x Width x Depth [in] touch 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 - during storage • during operation - during storage • during operation - during storage • during operation - during opera	General technical data	
installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during storage • during operation ambient temperature • during storage • during operation ambient temperature • during storage • during operation during operation country of origin Mexico Mexico Mexico Mexico Mexico Mexico **To speed of the country of the main contacts of contacts typical number of NO contacts at contactor for auxiliary contacts number of NO c	weight [lb]	5 lb
installation altitude [ft] at height above sea level maximum ambient temperature [*F] • during storage • during operation ambient temperature • during operation -4+104 *F ambient temperature • during operation -20+40 *C country of origin Mexico Horsepower ratings yielded mechanical performance [hp] for single-phase AC motor • at 115 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value size of contactor size of contactor sumber 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 (switching cycles) of the main contacts typical Auxiliary contact number of NO 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 NO 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 NO 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 NO 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 NO contacts at contactor for auxiliary contacts 1 100@600VAC (A600), 5A@600VDC (P600) to U. Coil type of voltage of the control supply voltage Control supply voltage	Height x Width x Depth [in]	8.13 × 5.75 × 4 in
ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during operation • during storage • during operation country of origin Horsepower ratings yielded mechanical performance [hp] for single-phase AC motor • at 115 V rated value • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value 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 Auxiliary contact number of NO 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 NO 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 ocontact rating of auxiliary contacts for auxiliary contacts number of voltage of the control supply voltage AC control supply voltage	touch protection against electrical shock	Not finger-safe
 during storage during operation during operation during storage during operation 20 +65 °C during operation 20 +40 °C country of origin Mexico Horsepower ratings yielded mechanical performance [hp] for single-phase AC motor at 115 V rated value at 200/208 V rated value 7.5 hp at 220/230 V rated value 7.5 hp 20 operation oth other size 2 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 current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO 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 contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage AC control supply voltage 	installation altitude [ft] at height above sea level maximum	6560 ft
during operation ambient temperature during storage during operation during operation country of origin Horsepower ratings yielded mechanical performance [hp] for single-phase AC motor at 115 V rated value at 200/208 V rated value at 220/230 V rated value 7.5 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 mechanical service life (switching cycles) of the main contacts typical Auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of	ambient temperature [°F]	
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• during storage • during operation 20 +40 °C country of origin Horsepower ratings yielded mechanical performance [hp] for single-phase AC motor • at 115 V rated value • at 200/208 V rated value • at 2200/230 V rated value • at 2200/230 V rated value 7.5 hp • at 2200/230 V rated value 7.5 hp Contactor size of contactor number of NO contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO 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 AC control supply voltage	during operation	-4 +104 °F
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yielded mechanical performance [hp] for single-phase AC motor • at 115 V rated value • at 200/208 V rated value • at 220/230 V rated value 7.5 hp • at 220/230 V rated value Size of contactor size of contactor number of NO contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (switching 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 AC control supply voltage	during operation	-20 +40 °C
yielded mechanical performance [hp] for single-phase AC motor • at 115 V rated value • at 200/208 V rated value • at 220/230 V rated value 7.5 hp • at 220/230 V rated value 7.5 hp Contactor size of contactor number of NO contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (switching 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 AC control supply voltage	country of origin	Mexico
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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 (switching 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 AC NEMA controller size 2 240 V 240 V 100000000 45 A 100000000 100000000 100000000 1000000	• at 200/208 V rated value	7.5 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 (switching 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 AC control supply voltage	• at 220/230 V rated value	7.5 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 operational service life (switching 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 AC control supply voltage	Contactor	
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maximum operational current at AC at 600 V rated value mechanical service life (switching 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 Coil type of voltage of the control supply voltage AC control supply voltage	number of NO contacts for main contacts	2
mechanical service life (switching 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 AC control supply voltage		240 V
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 AC control supply voltage	operational current at AC at 600 V rated value	45 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 Coil type of voltage of the control supply voltage control supply voltage AC		10000000
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 control supply voltage AC	Auxiliary contact	
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 control supply voltage AC	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC control supply voltage	number of NO contacts at contactor for auxiliary contacts	1
to UL Coil type of voltage of the control supply voltage control supply voltage AC	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage AC control supply voltage		10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage	Coil	
	type of voltage of the control supply voltage	AC
• at AC at 60 Hz rated value 208 V	control supply voltage	
	 at AC at 60 Hz rated value 	208 V

halding payor at AC minimum	0.0 M/
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 operating range factor control supply voltage rated value	25 VA 0.85 1.1
of magnet coil	0.65 1.1
percental drop-out voltage of magnet coil related to the	50 %
input voltage	
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
 overload protection 	Yes
 phase failure detection 	Yes
 asymmetry detection 	Yes
 ground fault detection 	Yes
test function	Yes
external reset	No
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current- dependent overload release	25 100 A
tripping time at phase-loss maximum	3 s
relative repeat accuracy	1 %
product feature protective coating on printed-circuit board	Yes
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	1
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	1 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
 with single-phase operation at AC rated value 	600 V
 with multi-phase operation at AC rated value 	300 V
Enclosure	
degree of protection NEMA rating	Open device (no enclosure)
design of the housing	NA
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
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x(14 - 2 AWG)
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	Box lug
tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1x(14 - 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	AL or CU
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	2 x (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	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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	7 10 lbf-in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded	2 x (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	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
breaking capacity maximum short-circuit current (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=US2:14FUG12AD

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

https://support.industry.siemens.com/cs/US/en/ps/US2:14FUG12AD

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=US2:14FUG12AD&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14FUG12AD/certificate

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