## **SIEMENS**

Data sheet US2:14DUC32FG



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive, Standard width enclosure

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	14 lb
Height x Width x Depth [in]	15 × 12 × 7 in
touch protection against electrical shock	(NA for enclosed products)
installation altitude [ft] 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 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
<ul><li>at 200/208 V rated value</li></ul>	2 hp
<ul><li>at 220/230 V rated value</li></ul>	2 hp
<ul><li>at 460/480 V rated value</li></ul>	5 hp
• at 575/600 V rated value	5 hp
Contactor	
size of contactor	NEMA controller size 1
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	27 A
mechanical service life (operating cycles) of the main contacts typical	10000000
Auxiliary contact	
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	
type of voltage of the control supply voltage	AC
control supply voltage	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	190 220 V
at AC at 60 Hz rated value	220 240 V
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 of magnet coil  0.85 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	
• phase failure detection Yes	
• asymmetry detection Yes	
• ground fault detection Yes	
• test function Yes	
• external reset Yes	
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  3 12 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	
number of NO contacts of auxiliary contacts of overload relay	
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 4X, fiber glass	
design of the housing Dust-tight, watertight & corrosion resistant	
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  35 35 lbf-in	
type of connectable conductor cross-sections at line-side for 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  Screw-type terminals	
tightening torque [lbf-in] for load-side outgoing feeder 35 35 lbf-in	
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	
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 for AWG cables single or multi-stranded	
temperature of the conductor at magnet coil maximum 75 °C permissible	
material of the conductor at magnet coil CU	
type of electrical connection for auxiliary contacts screw-type terminals	
type of decirious contributions advisingly contacted	
tightening torque [lbf-in] at contactor for auxiliary contacts  10 15 lbf-in	

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 for 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
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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 fuse link for short-circuit protection of the main	10kA@600V (Class H or K); 100kA@600V (Class R or J)  Thermal magnetic circuit breaker
design of the fuse link for short-circuit protection of the main circuit required	
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip	
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)	Thermal magnetic circuit breaker
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)  • at 240 V	Thermal magnetic circuit breaker  14 kA
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)  • at 240 V • at 480 V	Thermal magnetic circuit breaker  14 kA 10 kA

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=US2:14DUC32FG

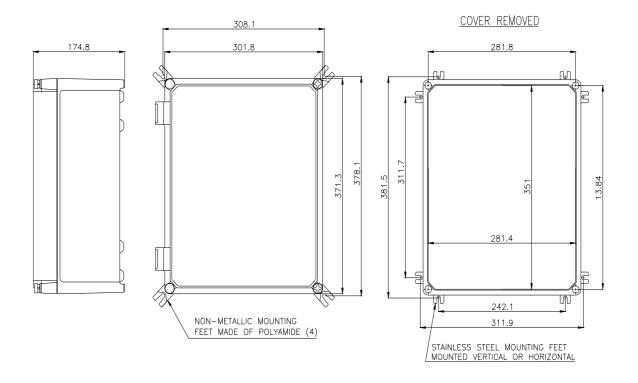
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

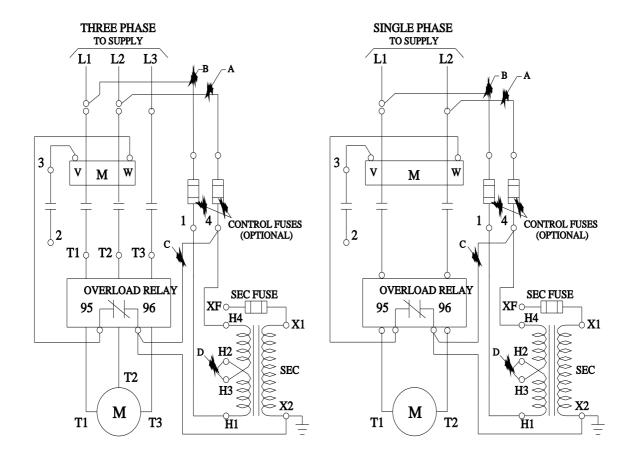
https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC32FG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14DUC32FG&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC32FG/certificate





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