## **SIEMENS**

Data sheet US2:14DUC82WJ



Non-reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 3-12A 24VAC 50-60HZ coil Combination type Water/dust tight non-corrosive

Figure similar

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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]	15 lb
Height x Width x Depth [in]	13 × 13 × 5 in
touch protection against electrical shock	(NA for enclosed products)
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
<ul><li>during storage</li></ul>	-22 +149 °F
<ul><li>during operation</li></ul>	-4 +104 °F
ambient temperature	
<ul><li>during storage</li></ul>	-30 +65 °C
<ul><li>during operation</li></ul>	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	2 hp
• at 220/230 V rated value	2 hp
• at 460/480 V rated value	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	10A@600VAC (A600), 5A@600VDC (P600)
to UL	
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	24 V
<ul> <li>at AC at 60 Hz rated value</li> </ul>	24 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	25 VA
operating range factor control supply voltage rated value	0.85 1.1
of magnet coil percental drop-out voltage of magnet coil related to the	50 %
input voltage	10 20
ON-delay time	19 29 ms 10 24 ms
OFF-delay time	10 24 IIIS
Overload relay	
product function	
overload protection	Yes
phase failure detection	Yes
asymmetry detection     ground fault detection	Yes Yes
ground fault detection     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	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	5A@600VAC (B600), 1A@250VDC (R300)
according to UL	
inculation valtage (LII)	
insulation voltage (Ui)	600 \/
with single-phase operation at AC rated value	600 V
<ul><li>with single-phase operation at AC rated value</li><li>with multi-phase operation at AC rated value</li></ul>	600 V 300 V
<ul> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> <li>Enclosure</li> </ul>	300 V
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating	300 V  4X, 304 stainless steel
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with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating design of the housing design of the housing Mounting/wiring mounting position	300 V  4X, 304 stainless steel Extra-wide Dust-tight, watertight & corrosion resistant  Vertical
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating design of the housing design of the housing  Mounting/wiring  mounting position fastening method	300 V  4X, 304 stainless steel Extra-wide Dust-tight, watertight & corrosion resistant
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with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating design of the housing design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side	300 V  4X, 304 stainless steel Extra-wide Dust-tight, watertight & corrosion resistant  Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in
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with single-phase operation at AC rated value with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf·in] at magnet coil tightening torque [lbf·in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible	4X, 304 stainless steel Extra-wide Dust-tight, watertight & corrosion resistant  Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x(14 - 2 AWG)  75 °C  AL or CU Screw-type terminals 35 35 lbf-in 1x(14 - 2 AWG)  75 °C  AL or CU screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG)
with single-phase operation at AC rated value with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating design of the housing design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf·in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum	4X, 304 stainless steel Extra-wide Dust-tight, watertight & corrosion resistant  Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)  75 °C  AL or CU Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)  75 °C  AL or CU Screw-type terminals 35 32 lbf·in 1x(14 - 2 AWG)

tightening torque [lbf·in] at contactor for auxiliary contacts 10 ... 15 lbf·in type of connectable conductor cross-sections at contactor 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG) at AWG cables for auxiliary contacts single or multistranded temperature of the conductor at contactor for auxiliary 75 °C contacts maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary screw-type terminals contacts tightening torque [lbf·in] at overload relay for auxiliary 7 ... 10 lbf·in contacts type of connectable conductor cross-sections at overload 2 x (20 - 14 AWG) relay at AWG cables for auxiliary contacts single or multistranded temperature of the conductor at overload relay for auxiliary 75 °C contacts maximum permissible material of the conductor at overload relay for auxiliary CU contacts

10kA@600V (Class H or K); 100kA@600V (Class R or J)

Thermal magnetic circuit breaker

## Short-circuit current rating

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
 at 600 V
 14 kA
 10 kA
 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=US2:14DUC82WJ

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

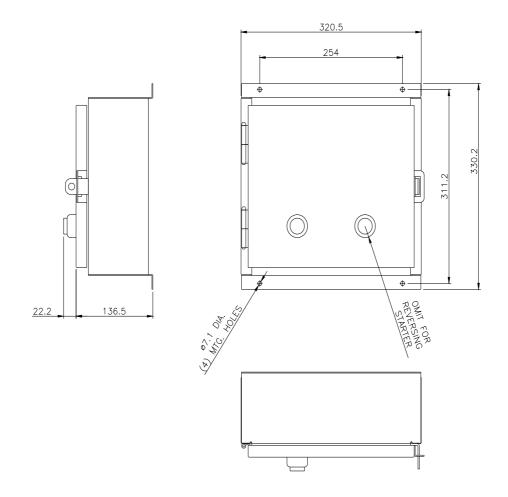
https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC82WJ

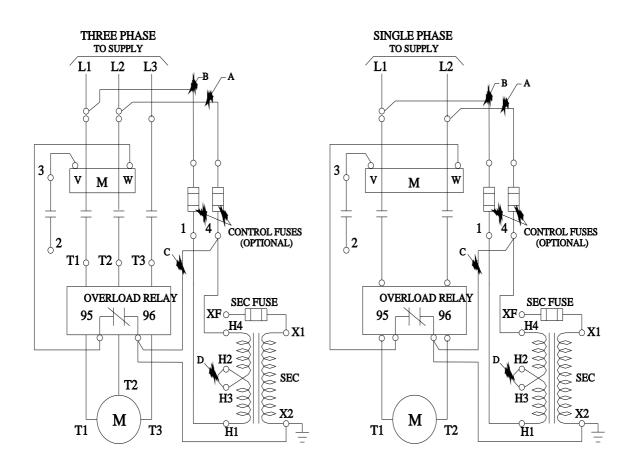
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14DUC82WJ&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC82WJ/certificate





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