SIEMENS

Data sheet

US2:14DUC12BA



Non-reversing motor starter, Size 1, Single phase full voltage, Solid-state overload relay, OLR amp range 3-12A, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

product brand name	Class 14			
design of the product	Full-voltage non-reversing motor starter			
special product feature	ESP200 overload relay; Dual voltage coil			
General technical data				
weight [lb]	8 lb			
Height x Width x Depth [in]	11 × 7 × 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]				
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 single-phase AC motor				
• at 115 V rated value	0.25 hp			
• at 200/208 V rated value	0.5 hp			
• at 220/230 V rated value	0.5 hp			
Contactor				
size of contactor	NEMA controller size 1			
number of NO contacts for main contacts	2			
operating voltage for main current circuit at AC at 60 Hz maximum	240 V			
operational current at AC at 600 V rated value	27 A			
mechanical service life (operating cycles) of the main contacts typical	1000000			
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				
 at AC at 60 Hz rated value 	110 240 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	25 VA			
operating range factor control supply voltage rated value of	0.85 1.1			

magnet coil					
percental drop-out voltage of magnet coil related to the input	50 %				
voltage	5U %				
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	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					
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	1				
degree of protection NEMA rating design of the housing	1 Indoor general purpose use				
degree of protection NEMA rating					
degree of protection NEMA rating design of the housing Mounting/wiring mounting position	Indoor general purpose use Vertical				
degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method	Indoor general purpose use Vertical Surface mounting and installation				
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contacts	
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
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/iccatal

Industry Mall (Online ordering system)

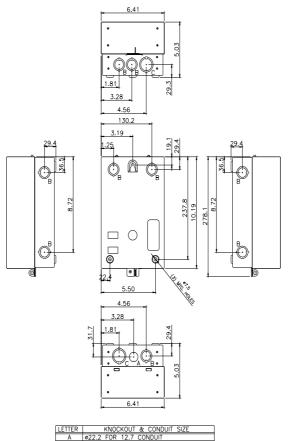
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC12BA

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUC12BA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC12BA/certificate



A	ø22.2	FOR	12.7	CON	DUIT		
B							CONDUIT
С	ø28.6	XØ3	54.9 I	FOR	19 &	25.4	CONDUIT



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