SIEMENS

Data sheet

US2:14DUC12BF



Non-reversing motor starter, Size 1, Single phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 110V 50Hz / 120V 60Hz coil, 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
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 50 Hz rated value	110 V
 at AC at 60 Hz rated value 	120 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 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	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	1A
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
design of the housing Mounting/wiring	
design of the housing	Indoor general purpose use Vertical
design of the housing Mounting/wiring mounting position fastening method	Indoor general purpose use Vertical Surface mounting and installation
design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Indoor general purpose use Vertical
design of the housing Mounting/wiring mounting position fastening method	Indoor general purpose use Vertical Surface mounting and installation Screw-type terminals
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 for	Indoor general purpose use Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in
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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
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main	10kA@600V (Class H or K); 100kA@600V (Class R or J)
circuit required	
design of the short-circuit trip	Thermal magnetic circuit breaker
	Thermal magnetic circuit breaker
design of the short-circuit trip	Thermal magnetic circuit breaker 14 kA
design of the short-circuit trip maximum short-circuit current breaking capacity (lcu)	
design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V	14 kA
design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V	14 kA 10 kA

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=US2:14DUC12BF

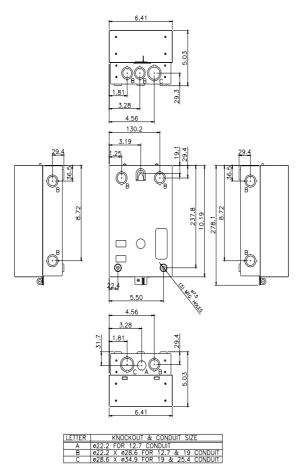
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC12BF

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUC12BF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUC12BF/certificate





last modified:

11/29/2021 🖸