SIEMENS

Data sheet

US2:14DUE82BH



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, Non-combination type, Enclosure type 1, Indoor general purpose use, Extra-wide enclosure

Figuresimilar

product brand name Class 14 design of the product Full-voltage non-reversing motor starter special product feature ESP220 overload relay General technical data ESP220 overload relay weight [b] 20 lb Height X Width X Depth [m] 20 X 12 x 8 in touch protection against electrical shock (NA for enclosed products) installation altitude [T] at height above sea level maximum 6560 ft ambient temperature [TF] -22 +149 "F • during storage -22 +149 "F • during storage -30 +65 °C • during operation -20 +40 "C country of origin USA Horsepower ratings yielded mechanical performance [thp] for 3-phase AC motor • at 200/208 V rated value 7.5 hp • at 200/208 V rated value 7.5 hp • at 40/480 V rated value 0 hp • at 575/600 V rated value 0 hp • at 575/600 V rated value 27 A operating voltage for main current circuit at AC at 60 Hz maximum 3 operating voltage for main current circuit at AC at 60 Hz maximum 1		
special product feature ESP200 overload relay General technical data	product brand name	Class 14
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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	number of NO contacts at contactor for auxiliary contacts	1
to UL Coil type of voltage of the control supply voltage AC	number of total auxiliary contacts maximum	8
type of voltage of the control supply voltage AC		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	380 440 V
at AC at 60 Hz rated value	440 480 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 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-	10 40 A
dependent overload release	
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	1
design of the housing	Extra-wide
design of the housing	Indoor general purpose use
Mounting/wiring	
	Vertical
mounting position	
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf·in] for supply type of connectable conductor cross-sections at line-side	35 35 lbf·in 1x(14 - 2 AWG)
at AWG cables single or multi-stranded temperature of the conductor for supply maximum	75 °C
permissible 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 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	75 °C
maximum permissible	
maximum permissible material of the conductor for load-side outgoing feeder	AL or CU
	AL or CU screw-type terminals
material of the conductor for load-side outgoing feeder	

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=US2:14DUE82BH		
Service&Support (Manuals, Certificates, Characteristics, FAQs,)		

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Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:14DUE82BH/certificate

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