SIEMENS

Data sheet

US2:18DUE82XF



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 110V 50Hz / 120V 60Hz coil, Combination type, 30A circuit breaker, Encl NEMA type 4X 316 S-Steel, Water/dust tight noncorrosive, Extra-wide enclosure

Figur	esi	milar	

product brand name	Class 18 & 26	
design of the product	Full-voltage non-reversing motor starter with motor circuit protector	
special product feature	ESP200 overload relay	
General technical data		
Height x Width x Depth [in]	24 × 20 × 8 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	
Horsepower ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V rated value	7.5 hp	
• at 220/230 V rated value	7.5 hp	
• at 460/480 V rated value	10 hp	
• at 575/600 V rated value	0 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 (switching 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 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	
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	10 40 A
make time with automatic start after power failure maximum	3 s
relative repeat accuracy	1 %
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	4X, 304 stainless steel
design of the housing	dustproof, waterproof & resistant to corrosion
Circuit Breaker	
Circuit Breaker type of the motor protection	Motor circuit protector (magnetic trip only)
Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value	Motor circuit protector (magnetic trip only) 30 A
Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	Motor circuit protector (magnetic trip only)
Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring	Motor circuit protector (magnetic trip only) 30 A 80 270 A
Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position	Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical
Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method	Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical Surface mounting and installation
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type of connectable conductor cross-sections at contactor 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
at AWG cables for auxiliary contacts single or multi- stranded	
temperature of the conductor at contactor for auxiliary 75 °C contacts maximum permissible	
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 7 10 lbf·in contacts	
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded 2x (20 14 AWG)	
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	
Short-circuit current rating	
design of the short-circuit trip Instantaneous trip circuit breaker	
breaking capacity maximum short-circuit current (Icu)	
• at 240 V 100 kA	
• at 480 V 100 kA	
• at 600 V 25 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=US2:18DUE82XF

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

https://support.industry.siemens.com/cs/US/en/ps/US2:18DUE82XF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18DUE82XF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18DUE82XF/certificate

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