## SIEMENS

## Data sheet

## US2:18DUD82WA



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, Combination type, 25A circuit breaker, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, Extra-wide enclosure

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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; Dual voltage coil		
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]			
<ul> <li>during storage</li> </ul>	-22 +149 °F		
during operation	-4 +104 °F		
ambient temperature			
<ul> <li>during storage</li> </ul>	-30 +65 °C		
<ul> <li>during operation</li> </ul>	-20 +40 °C		
Horsepower ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
<ul> <li>at 200/208 V rated value</li> </ul>	3 hp		
<ul> <li>at 220/230 V rated value</li> </ul>	3 hp		
<ul> <li>at 460/480 V rated value</li> </ul>	7.5 hp		
• at 575/600 V rated value	10 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 60 Hz rated value	110 240 V		
holding power at AC minimum	8.6 W		

apparent nick up power of meanet cell at A.C.	219.1/4		
apparent pick-up power of magnet coil at AC	218 VA		
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value	25 VA 0.85 1.1		
of 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			
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	5.5 22 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)			
<ul> <li>with single-phase operation at AC rated value</li> </ul>	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)		
	Motor circuit protector (magnetic trip only) 25 A		
type of the motor protection			
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of	25 A		
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	25 A		
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	25 A 55 180 A		
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	25 A 55 180 A Vertical		
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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         type of electrical connection for supply voltage line-side         type of connectable conductor cross-sections at line-side	25 A 55 180 A Vertical Surface mounting and installation Box lug		
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at AWG cables for auxiliary contacts single or multi- stranded					
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	2x (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 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=US2:18DUD82WA					
Service&Support (Manuals, Certificates, Characteristics,					
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https://support.industry.siemens.com/cs/US/en/ps/US2:18DUD82WA Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18DUD82WA&lang=en

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:18DUD82WA/certificate

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