# **SIEMENS**

### Data sheet

## US2:18DP92BAA91



Non-reversing motor starter Size 1 Three phase full voltage Amb compensate bimetal OLrelay Contactor amp rating 27Amp 110-120/220-240VAC 60HZ coil Combination type 3Amp circuit breaker Enclosure NEMA type 1 Indoor general purpose use Standard width enclosure

Figure similar

General technical data	
Weight [lb]	35 lb
Height x Width x Depth [in]	24 × 11 × 8 in
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
Ambient temperature [°F] during operation	-4 +104 °F
Ambient temperature during storage	-30 +65 °C
Ambient temperature during operation	-20 +40 °C
Country of origin	USA
Horsepower ratings	
Yielded mechanical performance [hp] for three-phase	
AC motor	
• at 200/208 V rated value	0.5 hp
• at 220/230 V rated value	0.5 hp
• at 460/480 V rated value	1 hp

• at 575/600 V rated value

1 hp

Contactor       3         Operating voltage for main contacts       3         Operating voltage for main current circuit at AC at 60       4         Hz maximum       27 A         Operating current at AC at 600 V rated value       27 A         Mechanical service life (switching cycles) of the main contacts typical       1000000         Auxiliary contact       0         Number of NC contacts at contactor for auxiliary contacts       0         Contact sting of auxiliary contacts maximum       0         Contact sting of auxiliary contacts of contactor       10A@600VAC (A600), 5A@600VDC (P600)         according to UL       0         Control stapply voltage       0         Control stapply voltage       0         Control supply voltage of magn	• at 575/600 V rated value	1 hp	
Number of NO contacts for main contacts         3           Operating voltage for main current circuit at AC at 60         600 V           Hz maximum         600 V           Operating current at AC at 600 V rated value         27 A           Mechanical service life (switching cycles) of the main contacts typical         10000000           Auxiliary contacts         0           Number of NC contacts at contactor for auxiliary contacts         1           Number of NC contacts at contactor for auxiliary contacts         1           Number of NC contacts at contacts of contactor according to UL         0           Contact rating of auxiliary contacts of contactor according to UL         0           Contact supply voltage         AC           Contot supply voltage         AC           Control supply voltage         0           • at AC at 50 Hz rated value         0           • at AC at 50 Hz rated value         0 0 V           • at AC at 50 Hz rated value         0 0 V           • at AC at 50 Hz rated value         0 0 V           • at AC at 50 Hz rated value         0 0 V           • at AC at 50 Hz rated value         0 0 V           • at AC at 50 Hz rated value         0 0 V           • at AC at 50 Hz rated value         0 0 V           • at AC at	Contactor		
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Mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         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 contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Cottor targing of auxiliary contacts of contactor according to UL       0         Contact rating of auxiliary contacts and contactor according to UL       0         Cottor supply voltage       AC         Control supply voltage       0         • at DC rated value       0         • at AC at 50 Hz rated value       0         • at AC at 50 Hz rated value       0         • at AC at 50 Hz rated value       0         • at AC at 50 Hz rated value       00 V         Holding power at AC minimum       8.6 W         Apparent holding power of magnet coil at AC       218 V-A         Apparent holding to pupt voltage at additact       0.5 1.1         Value of magnet coil at AC       25 V-A         Operating range factor control supply voltage rated       0.5 1.1         Value of magnet coil at AC       25 V-A         Ordelal		600 V	
contacts typical         Auxiliary contact         Number of NC contacts at contactor for auxiliary contacts       0         Number of NO contacts at contactor for auxiliary contacts       1         Contact rating of oxciliary contacts maximum       8         Contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Contact rating of auxiliary contacts of contactor according to UL       0         Contact rating of auxiliary contacts of contactor according to UL       0         Control supply voltage       AC         Control supply voltage       0         • at DC rated value       0         • at AC at 60 Hz rated value       0         • at AC at 60 Hz rated value       0         • at AC at 50 Hz rated value       0         • at AC at 50 Hz rated value       0         • at AC at 50 Hz rated value       0         • at AC at 50 Hz rated value       0         • 0       0         Paparent pick-up power of magnet coil at AC       218 V-A         Apparent pick-up power of magnet coil at AC       25 V-A         Operating range factor control supply voltage rated       0.85 1.1         Percental drop-out voltage of magnet coil at AC       25 V-A         Operating range factor       0	Operating current at AC at 600 V rated value	27 A	
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contacts     8       Number of total auxiliary contacts maximum     8       Contact rating of auxiliary contacts of contactor according to UL     10A@600VAC (A600), 5A@600VDC (P600)       Coll     7ype of voltage of the control supply voltage     AC       Control supply voltage     00V       • at DC rated value     00V       • at AC at 60 Hz rated value     00V       • at AC at 50 Hz rated value     00V       Holding power at AC minimum     8.6 W       Apparent pick-up power of magnet coil at AC     218 V/A       Operating range factor control supply voltage rated     0.85 1.1       Value of magnet coil     25 V/A       Operating range factor control supply voltage rated     50 %       Switch-on delay time     19 29 ms       Off-delay time     10 24 ms       Overload protection     Yes       • External reset     Yes       Reset function     Yes       • External reset     Yes       Reset function     Manual and automatic       Adjustment range of theral overload trip unit     0.85 1.15       Number of NO contacts of auxiliary contacts of     1	-	0	
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Product functionYes• Overload protectionYes• Test functionYes• External resetYesReset functionManual and automaticAdjustment range of thermal overload trip unit0.85 1.15Number of NC contacts of auxiliary contacts of overload relay1	Off-delay time	10 24 ms	
Product functionYes• Overload protectionYes• Test functionYes• External resetYesReset functionManual and automaticAdjustment range of thermal overload trip unit0.85 1.15Number of NC contacts of auxiliary contacts of overload relay1	Overload relay		
<ul> <li>Test function</li> <li>External reset</li> <li>Reset function</li> <li>Adjustment range of thermal overload trip unit</li> <li>Number of NC contacts of auxiliary contacts of overload relay</li> <li>Number of NO contacts of auxiliary contacts of</li> <li>1</li> </ul>			
• Test functionYes• External resetYesReset functionManual and automaticAdjustment range of thermal overload trip unit0.85 1.15Number of NC contacts of auxiliary contacts of overload relay1Number of NO contacts of auxiliary contacts of 11	<ul> <li>Overload protection</li> </ul>	Yes	
Reset function       Manual and automatic         Adjustment range of thermal overload trip unit       0.85 1.15         Number of NC contacts of auxiliary contacts of overload relay       1         Number of NO contacts of auxiliary contacts of       1	Test function	Yes	
Adjustment range of thermal overload trip unit       0.85 1.15         Number of NC contacts of auxiliary contacts of overload relay       1         Number of NO contacts of auxiliary contacts of       1	• External reset	Yes	
Number of NC contacts of auxiliary contacts of overload relay     1       Number of NO contacts of auxiliary contacts of     1	Reset function	Manual and automatic	
overload relay     1	Adjustment range of thermal overload trip unit	0.85 1.15	
	-	1	
	-	1	

Operating current of auxiliary contacts of overload relay	
• at AC at 600 V	10 A
• at DC at 250 V	5 A
Contact rating of auxiliary contacts of overload relay	10A@600VAC (A600), 5A@250VDC (P300)
according to UL	10/10/0000//10 (/1000), 0/10/200720 (1 000)
-	
Enclosure	
Degree of protection NEMA rating of the enclosure	NEMA Type 1
Design of the housing	Indoor general purpose use
Motor Circuit Protector (magnetic trip only)	
Operating current of motor circuit breaker rated value	3 A
Adjustable pick-up value current of instantaneous	10 35 A
short-circuit trip unit	
Mounting/wiring	
(mounting position)	Vertical
(mounting type)	Surface mounting and installation
Type of electrical connection for supply voltage line-	Box lug
side	
Type of connectable conductor cross-sections at line-	1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)
side at AWG conductors 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	35 50 lbf·in
feeder	
Type of electrical connection of magnet coil	Screw-type terminals
Tightening torque [lbf·in] at magnet coil	5 12 lbf·in
Type of connectable conductor cross-sections of	2x (16 12 AWG)
magnet coil at AWG conductors single or multi- stranded	
Temperature of the conductor at magnet coil	75 °C
maximum permissible	
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	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
contactor at AWG conductors for auxiliary contacts	
single or multi-stranded	
Temperature of the conductor at contactor for	75 °C
auxiliary contacts maximum permissible	

Material of the conductor at contactor for auxiliary contacts	CU
Type of electrical connection at overload relay for	Screw-type terminals
auxiliary contacts	
Tightening torque [lbf·in] at overload relay for	5 12 lbf·in
auxiliary contacts	
Type of connectable conductor cross-sections at	2x (16 12 AWG)
	2X (10 12 AWG)
overload relay at AWG conductors for auxiliary	
contacts single or multi-stranded	
Temperature of the conductor at overload relay for	75 °C
auxiliary contacts maximum permissible	
Material of the conductor at overload relay for	CU
-	
auxiliary contacts	
Short-circuit current rating	
Design of the short-circuit trip	Motor circuit protector (magnetic trip only)
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 kA
• at 480 V	100 kA
• at 600 V	25 kA

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

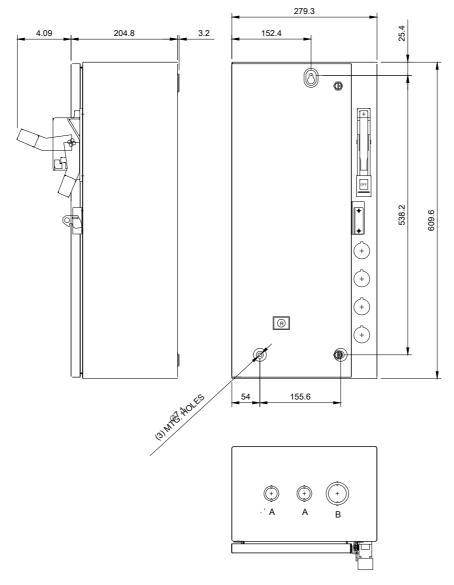
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18DP92BAA91

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18DP92BAA91

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18DP92BAA91&lang=en

#### Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18DP92BAA91/certificate



LCONDUITS TYP. TOP & BOTTOM

LETTER	CONDUIT SIZE
A	%%C12.7 & %%C19 CONDUIT
В	Ø25.4 & Ø31.8 CONDUIT



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