# **SIEMENS**

## Data sheet

### US2:18CP82BCH81

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Non-reversing motor starter Size 0 Three phase full voltage Amb compensate bimetal OLrelay Contactor amp rating 18Amp 380-440/440-480V 50/60HZ coil Combination type 25Amp circuit breaker Enclosure NEMA type 1 Indoor general purpose use Extra-wide enclosure

Figure similar

General technical data							
Weight [lb]	48 lb						
Height x Width x Depth [in]	24 × 20 × 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	3 hp						
• at 220/230 V rated value	3 hp						
• at 460/480 V rated value	5 hp						

• at 575/600 V rated value

5 hp

• at 575/600 V rated value	5 hp
Contactor	
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Operating current at AC at 600 V rated value	18 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 DC rated value	0 0 V
• at AC at 60 Hz rated value	440 480 V
• at AC at 50 Hz rated value	380 440 V
Holding power at AC minimum	8.6 W
Apparent pick-up power of magnet coil at AC	218 V·A
Apparent holding power of magnet coil at AC	25 V·A
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 %
Switch-on delay time	19 29 ms
Off-delay time	10 24 ms
Overload relay	
Product function	
Overload protection	Yes
Test function	Yes
External reset	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 overload relay	0

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 according to UL	10A@600VAC (A600), 5A@250VDC (P300)						
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	25 A						
Adjustable pick-up value current of instantaneous short-circuit trip unit	55 180 A						
Mounting/wiring							
(mounting position)	Vertical						
(mounting type)	Surface mounting and installation						
Type of electrical connection for supply voltage line- side	Box lug						
Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded	1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)						
Temperature of the conductor for supply maximum permissible	75 °C						
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 50 lbf·in						
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 magnet coil at AWG conductors single or multi-stranded	2x (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 conductors for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)						
Temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C						

Material of the conductor at contactor for auxiliary	CU
contacts	
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)
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
	100 kA
• at 480 V	
● at 600 V	25 kA

#### urther information

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

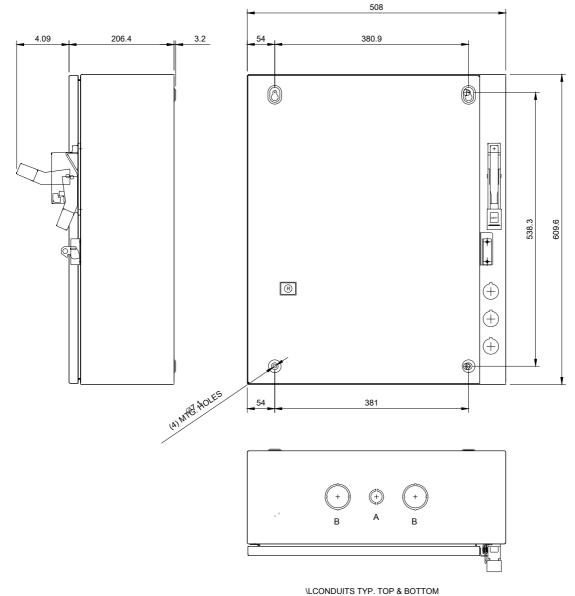
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18CP82BCH81
Service&Support (Manuals, Certificates, Characteristics, FAQs, )

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82BCH81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18CP82BCH81&lang=en

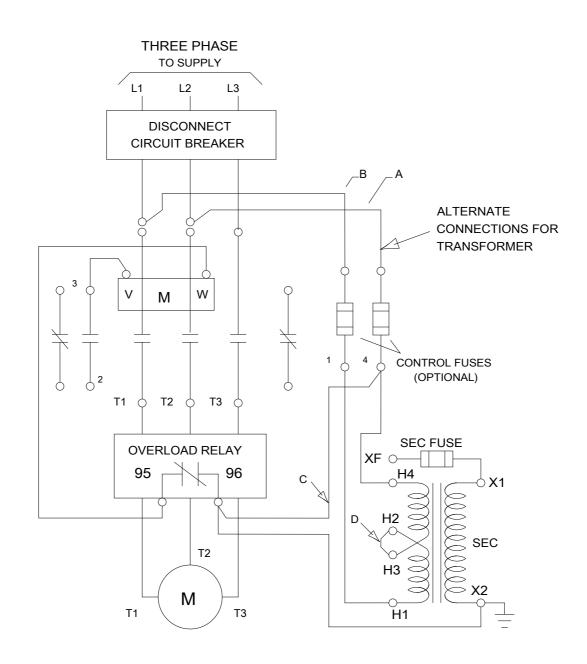
#### Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82BCH81/certificate



LETTER	CONDUIT SIZE
А	%%C12.7 & %%C19 CONDUIT
В	Ø31.8 & Ø38.1 CONDUIT

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