# **SIEMENS**

## Data sheet

## US2:18CP92BCH91



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 Standard width enclosure

### Figure similar

Product brand name	Class 18
Design of the product	Non-reversing motor starter with motor circuit protector
Special product feature	Gravity dropout contacts; 45 degree, wedge action contacts; Self-
	rising pressure type control terminals; Encapsulated coil

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]	
<ul> <li>during storage maximum</li> </ul>	149 °F
<ul> <li>during operation maximum</li> </ul>	104 °F
Ambient temperature	
<ul> <li>during storage maximum</li> </ul>	65 °C
<ul> <li>during operation maximum</li> </ul>	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

Contactor		
Size of contactor	NEMA controller size 0	
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 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 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		
<ul> <li>Overload protection</li> </ul>	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	1	
overload relay		
Number of NO contacts of auxiliary contacts of	1	
overload relay		
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		
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	55 180 A	
short-circuit trip unit		
Mounting/wiring	Vertical	
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-	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 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	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 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 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	5 12 lbf·in
Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded	2x (16 12 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	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
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)

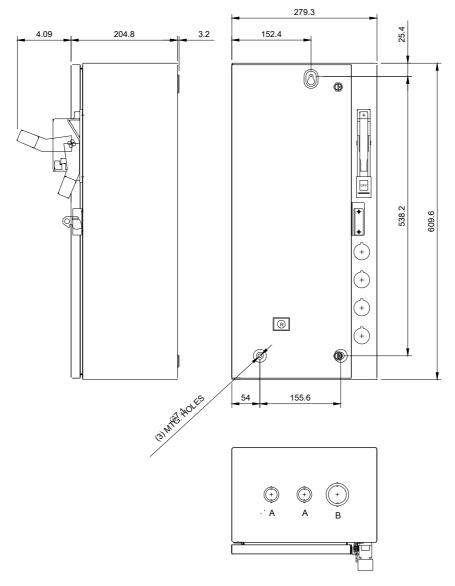
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18CP92BCH91

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18CP92BCH91

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18CP92BCH91&lang=en

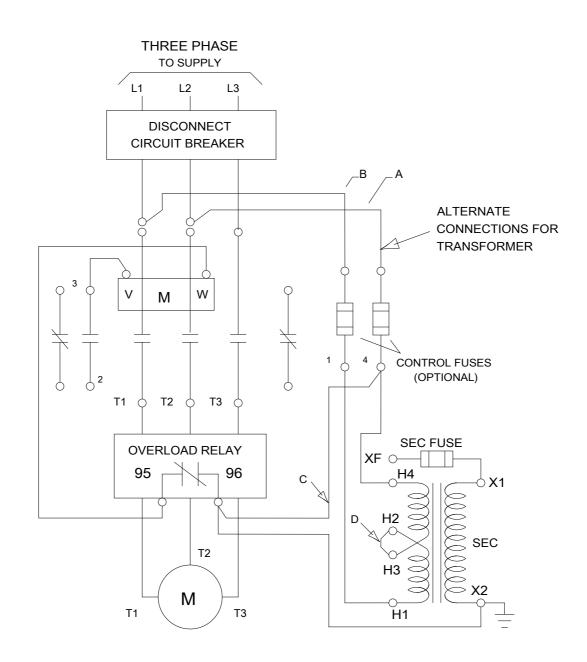
### Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18CP92BCH91/certificate



LCONDUITS TYP. TOP & BOTTOM

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



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