# **SIEMENS**

### Data sheet

## US2:40CP220H

Non-reversing NEMA contactor, Size 0, 4 power poles, Contactor amp rating 18A, 3 wire (NO aux included), 380-440/440-480V 50/60Hz coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors, Standard width enclosure



Figure similar

General technical data	
Weight [lb]	11 lb
Height x Width x Depth [in]	13 × 8 × 5 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	2 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

Contractor       4         Number of NO contacts for main contracts       4         Operating voltage for main current circuit at AC at 600 V       600 V         Hz maximum       600 V         Operating current at AC at 600 V reted value       18 A         Mechanical service if (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         Number of NC contacts at contactor for auxiliary contacts       0         Number of NC contacts at contactor for auxiliary contacts at contactor for auxiliary contacts       1         Number of NO contacts at contactor for auxiliary contacts of contactor according to UL       1         Col       10A@600VAC (A600), 5A@600VDC (P600)         Contact rating of auxiliary contacts of contactor according to UL       0         Control supply voltage       0         • at AC at 60 Hz rated value       0         • at AC at 60 Hz rated value       440         • at AC at 60 Hz rated value       380         • at AC at 60 Hz rated value       440 V         Holding power of magnet coil at AC       25 VA         Operating range factor control supply voltage rated value       50 %         Switch- on delay time       19       29 ms         Off-delay time       19       29 ms         O	• at 575/600 V rated value	5 hp
Number of NO contacts for main contacts         4           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         18 A           Mechanical service life (switching cycles) of the main contacts typical         10000000           Auxiliary contact         0           Number of NC contacts at contactor for auxiliary contacts         1           Number of NO contacts at contactor for auxiliary contacts         1           Number of NO contacts at contactor for auxiliary contacts         1           Octated value         0           Contact rating of auxiliary contacts of contactor according to UL         0           Control supply voltage         AC           Control supply voltage         0           • at C at 60 Hz rated value         0           • at C at 60 Hz rated value         380 440 V           Holding power at AC minimum         8.6 W           Apparent holding 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         50 %           Beine publicage         50 %           Beine publicage         50 %           Beine of p	Contactor	
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Control supply voltage       00 V         • at DC rated value       00 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         Enclosure       Design of the housing         Dust tight and drip proof for indoors       Mounting/wiring         (mounting position)       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals	Coil	
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Degree of protection NEMA rating of the enclosureNEMA Type 12Design of the housingDust tight and drip proof for indoorsMounting/wiring(mounting position)(mounting position)Vertical(mounting type)Surface mounting and installationType of electrical connection for supply voltage line- sideScrew-type terminalsTightening torque [lbf-in] for supply20 20 lbf-in	Off-delay time	10 24 ms
Design of the housing       Dust tight and drip proof for indoors         Mounting/wiring       Vertical         (mounting position)       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals         Tightening torque [lbf-in] for supply       20 20 lbf-in	Enclosure	
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Type of electrical connection for supply voltage line- side       Screw-type terminals         Tightening torque [lbf·in] for supply       20 20 lbf·in		
side Tightening torque [lbf·in] for supply 20 20 lbf·in		-
	side	
Type of connectable conductor cross-sections at line $1x (14 - 2 AWG)$		
side at AWG conductors single or multi-stranded	Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded	1x (14 2 AWG)

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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	20 20 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	1x (14 2 AWG)
Temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
Material of the conductor for load-side outgoing feeder	AL or CU
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 at contactor 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
Short-circuit current rating	
Design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
Design of the short-circuit trip	Thermal magnetic circuit breaker
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	14 A
● at 480 V	10 A
• at 600 V	10 A
Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

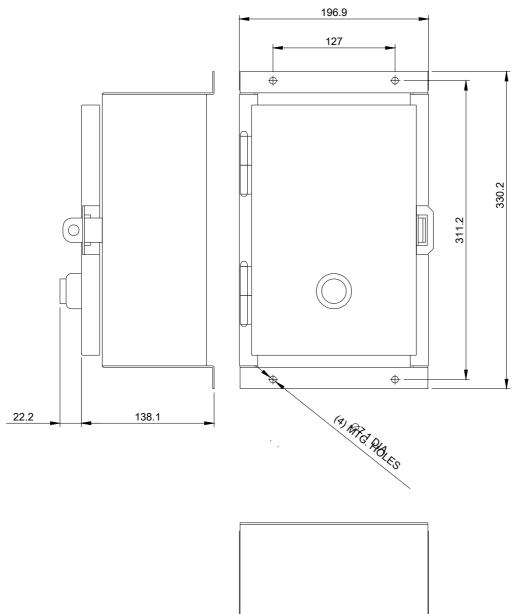
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:40CP220H

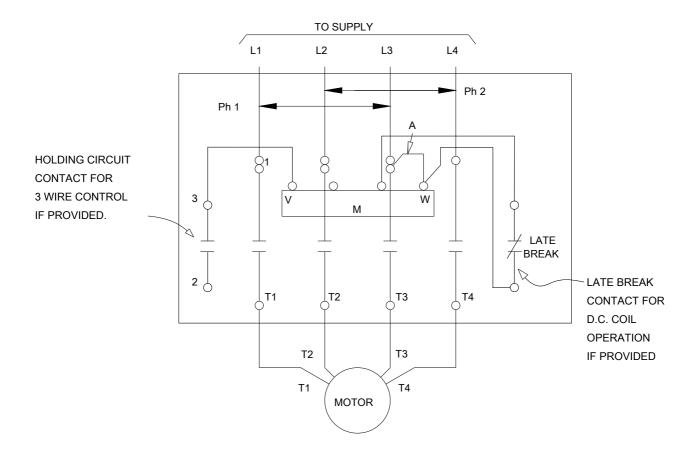
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:40CP220H

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:40CP220H&lang=en

#### Certificates/approvals

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