

Non-reversing NEMA contactor, Size 5, Three phase full voltage, Contactor amp rating 270A, 3 wire (NO aux included), 200-220V 50-60Hz/DC coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors, Standard width enclosure



Figure similar

Product brand name	Class 40
Design of the product	Non-reversing contactor
Special product feature	Latest technology in arc quenching to extend contactor life; Same coil voltage is AC or DC

General technical data	
Weight [lb]	113 lb
Height x Width x Depth [in]	40 × 20 × 11 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
• during operation	-4 ... +104 °F
Ambient temperature	
• during storage	-30 ... +65 °C
• 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	75 hp
• at 220/230 V rated value	100 hp
• at 460/480 V rated value	200 hp
• at 575/600 V rated value	200 hp

## Contactors

Size of contactor	NEMA controller size 5
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	270 A
Mechanical service life (switching cycles) of the main contacts typical	10000000

## Auxiliary contact

Number of NC contacts at contactor for auxiliary contacts	2
Number of NO contacts at contactor for auxiliary contacts	2
Number of total auxiliary contacts maximum	8
Contact rating of auxiliary contacts of contactor according to UL	10A@240VAC (A300), 2.5A@250VDC (Q300)

## Coil

Type of voltage of the control supply voltage	AC/DC
Control supply voltage	
• at DC rated value	200 ... 220 V
• at AC at 50 Hz rated value	200 ... 220 V
• at AC at 60 Hz rated value	200 ... 220 V
Holding power at AC minimum	7.4 W
Apparent pick-up power of magnet coil at AC	590 V·A
Apparent holding power of magnet coil at AC	6.7 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	60 %
Switch-on delay time	30 ... 95 ms
Off-delay time	40 ... 80 ms

## Enclosure

Degree of protection NEMA rating of the enclosure	NEMA Type 12
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	Box lug
Tightening torque [lbf·in] for supply	180 ... 195 lbf·in
Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded	3/0 AWG ... 600 MCM (front only) or 250 ... 500 MCM (back only) or 2x 2/0 AWG ... 2x 500 MCM (both front & back)
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	Box lug
Tightening torque [lbf·in] for load-side outgoing feeder	180 ... 195 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	3/0 AWG ... 600 MCM (front only) or 250 ... 500 MCM (back only) or 2x 2/0 AWG ... 2x 500 MCM (both front & back)
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	7 ... 10 lbf·in
Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded	2x (18 ... 14 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	7 ... 10 lbf·in
Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded	2x (20 ... 16 AWG), 2x (18 ... 14 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	14kA@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 (I <sub>cu</sub> )	
<ul style="list-style-type: none"> <li>at 240 V</li> </ul>	14 A

- at 480 V
- at 600 V

14 A

14 A

Certificate of suitability

NEMA ICS 2; UL 508

#### Further information

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

[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)

##### **Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:40LP320D>

##### **Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

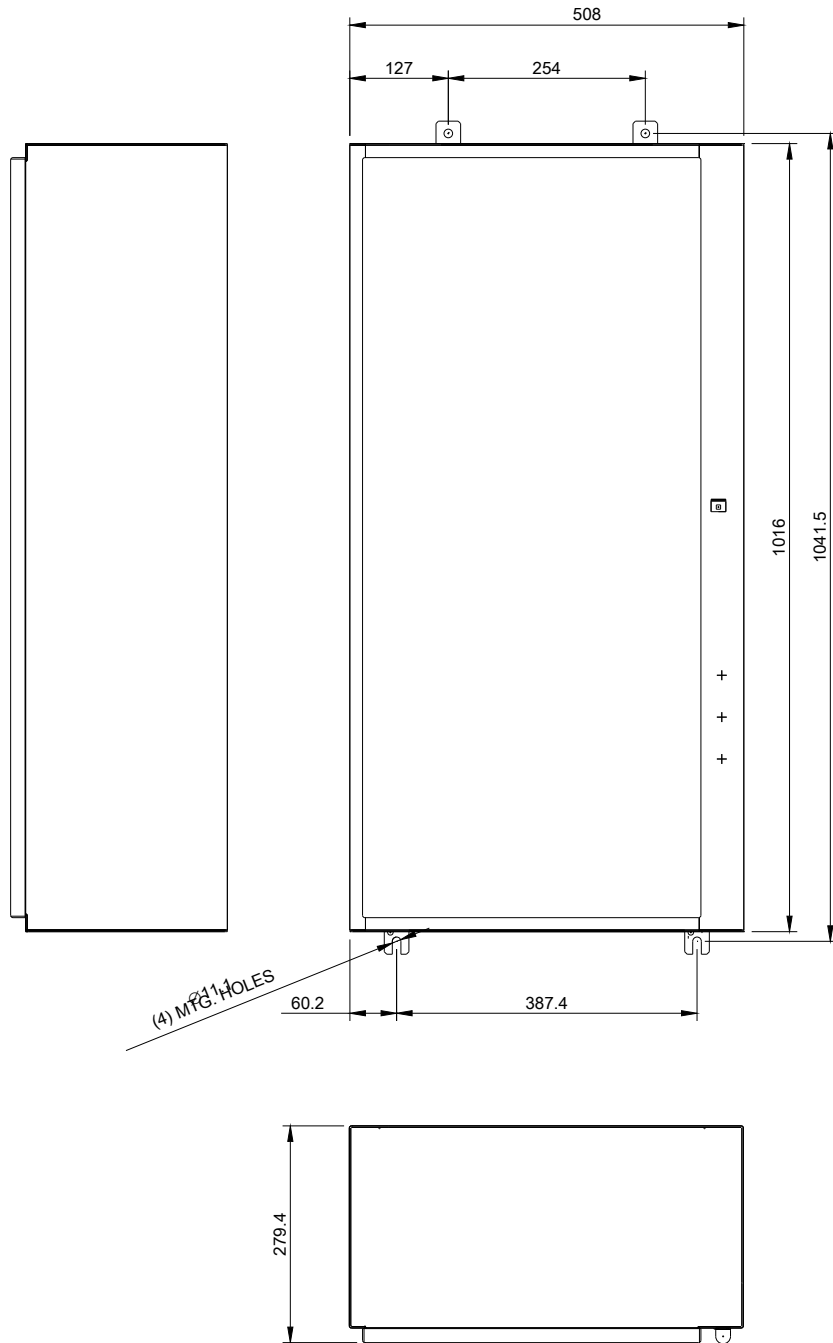
<https://support.industry.siemens.com/cs/US/en/ps/US2:40LP320D>

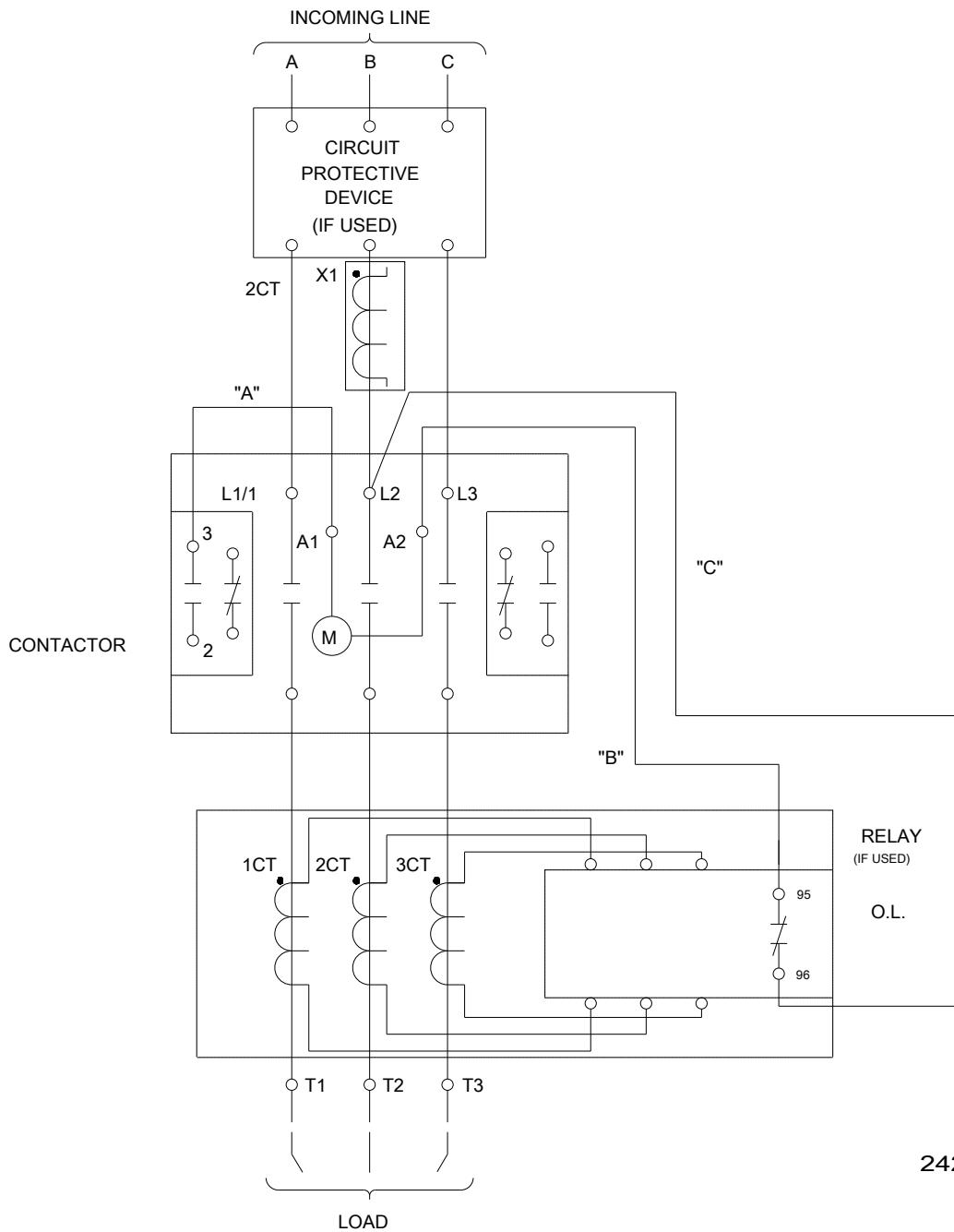
##### **Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:40LP320D&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40LP320D&lang=en)

##### **Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:40LP320D/certificate>





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