



Non-reversing NEMA contactor, Size 7, Three phase full voltage, Contactor amp rating 810A, 3 wire (NO aux included), 100-250V 50-60Hz/DC coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors, Standard width enclosure

product brand name	Class 40
design of the product	Non-reversing contactor
special product feature	Contactors can be mounted in any position; Same coil voltage is AC or DC
General technical data	
weight [lb]	159 lb
Height x Width x Depth [in]	48 × 20 × 13 in
touch 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 3-phase AC motor	
• at 200/208 V rated value	0 hp
• at 220/230 V rated value	300 hp
• at 460/480 V rated value	600 hp
• at 575/600 V rated value	600 hp
Contactors	
size of contactor	NEMA controller size 7
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	810 A
mechanical service life (operating cycles) of the main contacts typical	3000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	1
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@240VAC (A300), 2.5A@250VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC/DC
control supply voltage	
• at DC rated value	100 ... 250 V
• at AC at 50 Hz rated value	100 ... 250 V
• at AC at 60 Hz rated value	100 ... 250 V
holding power at AC minimum	4.5 W

apparent pick-up power of magnet coil at AC	850 VA
apparent holding power of magnet coil at AC	12 VA
operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1
percentual drop-out voltage of magnet coil related to the input voltage	55 %
ON-delay time	30 ... 115 ms
OFF-delay time	25 ... 80 ms

Enclosure

degree of protection NEMA rating of the enclosure	NEMA Type 12
design of the housing	dustproof and drip-proof for indoor use

Mounting/wiring

mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Bus bar (M12 screws/bolts)
tightening torque [lbf-in] for supply	398 ... 398 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	2/0 AWG ... 500 MCM
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	CU
type of electrical connection for load-side outgoing feeder	bus bar (M12 screws/bolts)
tightening torque [lbf-in] for load-side outgoing feeder	398 ... 398 lbf-in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2/0 AWG ... 500 MCM
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	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 for AWG cables 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	9 ... 9 lbf-in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	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	82kA@600V (Class R or L)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	0 A
• at 480 V	0 A
• at 600 V	0 A
certificate of suitability	NEMA ICS 2; UL 508A

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=US2:40NH320F>

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

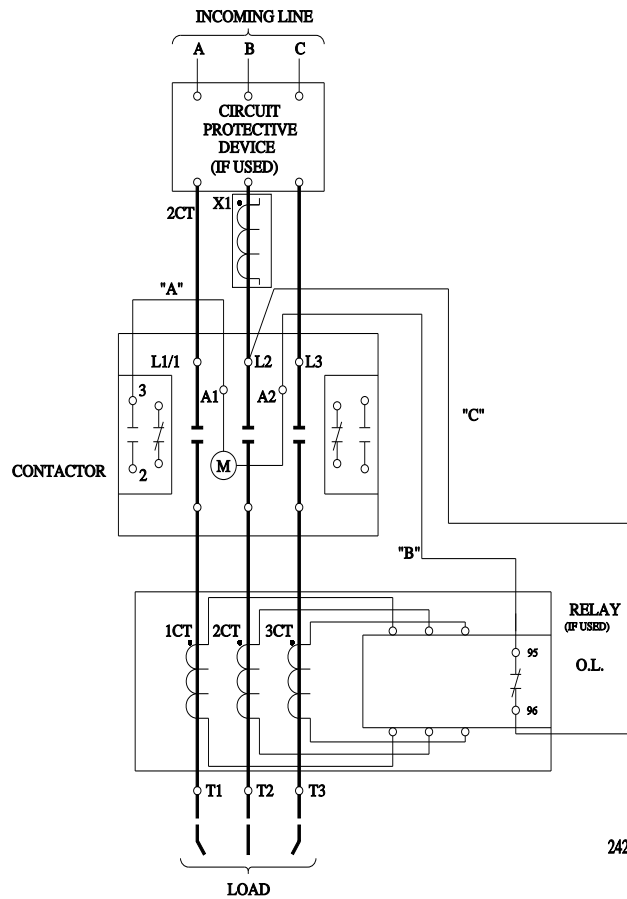
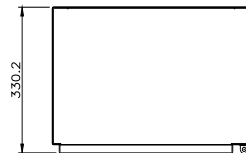
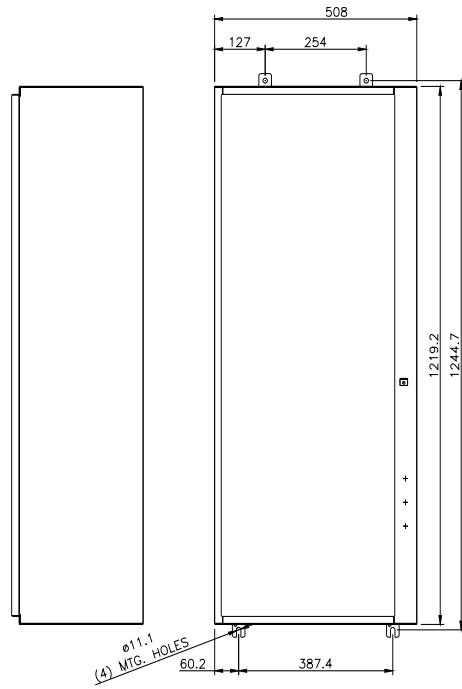
<https://support.industry.siemens.com/cs/US/en/ps/US2:40NH320F>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40NH320F&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:40NH320F/certificate>



24295006027

