SIEMENS

Data sheet

US2:40HP82BD



Non-reversing NEMA contactor, Size 3, Three phase full voltage, Contactor amp rating 90A, 3 wire (NO aux included), 208VAC 60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

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product brand name	Class 40
design of the product	Non-reversing contactor
special product feature	Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising pressure type control terminals; Encapsulated coil
General technical data	
weight [lb]	32 lb
Height x Width x Depth [in]	25 × 14 × 9 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	25 hp
• at 220/230 V rated value	30 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	50 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 A
mechanical service life (operating cycles) of the main contacts typical	500000
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	7
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 2.5A@300VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
• at AC at 60 Hz rated value	208 208 V
holding power at AC minimum	14 W
apparent pick-up power of magnet coil at AC	310 VA

AWG cables single or multi-stranded	
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	2x (16 12 AWG)
tightening torque [lbf·in] at magnet coil	5 12 lbf·in
type of electrical connection of magnet coil	Screw-type terminals
material of the conductor for load-side outgoing feeder	AL or CU
maximum permissible	
temperature of the conductor for load-side outgoing feeder	75 °C
for load-side outgoing feeder single or multi-stranded	
tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables	120 120 lbf·in 1x (14 2/0 AWG)
type of electrical connection for load-side outgoing feeder	Box lug
material of the conductor for supply	AL or CU
temperature of the conductor for supply maximum permissible	75 °C
AWG cables single or multi-stranded	
	1x (14 2/0 AWG)
type of connectable conductor cross-sections at line-side for	1x (14 2/0 AWG)
tightening torque [lbf·in] for supply	120 120 lbf·in
type of electrical connection for supply voltage line-side	Box lug
fastening method	Surface mounting and installation
mounting position	Vertical
lounting/wiring	
design of the housing	indoors, usable on a general basis
degree of protection NEMA rating of the enclosure	NEMA Type 1
Enclosure	
OFF-delay time	14 19 ms
ON-delay time	26 41 ms
voltage	
percental drop-out voltage of magnet coil related to the input	50 %
magnet coil	
operating range factor control supply voltage rated value of	0.85 1.1
	26 VA

Test Certificates



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=US2:40HP82BD

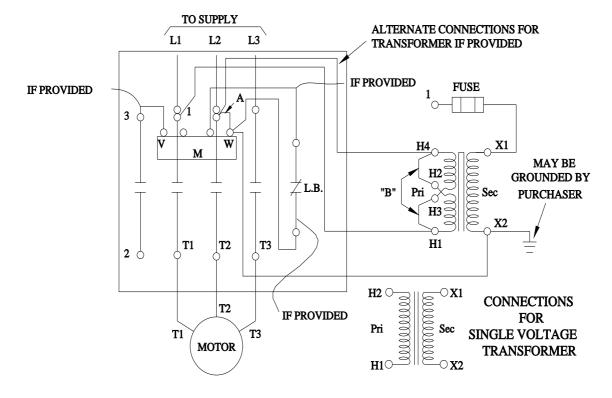
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:40HP82BD

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40HP82BD&lang=en Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:40HP82BD/certificate

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WIRING DIAGRAM



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last modified:

11/28/2023 🖸