SIEMENS

Data sheet US2:40EP82BJ



Non-reversing contactor, Size 1 3/4, Three phase full voltage, Contactor amp rating 40A, 3 wire (NO aux included), 24VAC 50-60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

product brand name	Class 40		
design of the product	Non-reversing contactor		
special product feature	Half-size controller		
General technical data			
weight [lb]	20 lb		
Height x Width x Depth [in]	20 × 12 × 8 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	10 hp		
• at 220/230 V rated value	10 hp		
• at 460/480 V rated value	15 hp		
• at 575/600 V rated value	15 hp		
Contactor			
size of contactor	Controller half size 1 3/4		
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	40 A		
mechanical service life (operating cycles) of the main contacts typical	10000000		
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 	24 V		
at AC at 60 Hz rated value	24 V		
holding power at AC minimum	8.6 W		
apparent pick-up power of magnet coil at AC	218 VA		

apparent holding power of magnet coil at AC	25 VA		
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 %		
ON-delay time	19 29 ms		
OFF-delay time	10 24 ms		
Enclosure			
degree of protection NEMA rating of the enclosure	NEMA Type 1		
design of the housing	indoors, usable on a general basis		
Mounting/wiring			
mounting position	Vertical		
fastening method	Surface mounting and installation		
type of electrical connection for supply voltage line-side	Screw-type terminals		
tightening torque [lbf·in] for supply	45 45 lbf·in		
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1x (14 2 AWG)		
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	45 45 lbf·in		
type of connectable conductor cross-sections for AWG cables 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 for AWG cables 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 for AWG cables 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		
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)

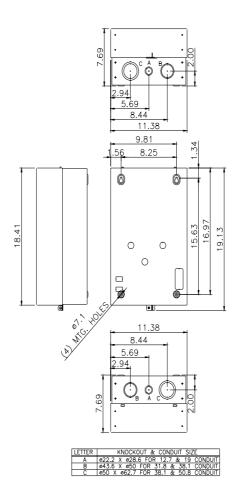
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:40EP82BJ

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:40EP82BJ

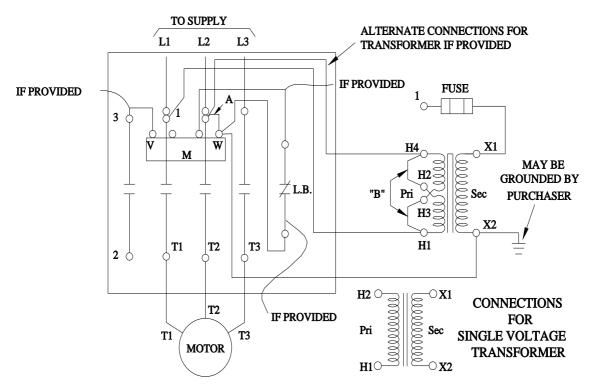
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40EP82BJ&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:40EP82BJ/certificate



WIRING DIAGRAM



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last modified: 1/25/2022 🖸

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