SIEMENS

Data sheet

US2:40EP820J



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 12, Dust/drip proof for indoors, 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]	15 lb
Height x Width x Depth [in]	13 × 13 × 5 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	1000000
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

urther information	
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
• at 600 V	10 A
• at 480 V	10 A
• at 240 V	14 A
maximum short-circuit current breaking capacity (Icu)	
circuit required design of the short-circuit trip	Thermal magnetic circuit breaker
design of the fuse link for short-circuit protection of the main	10kA@600V (Class H or K); 100kA@600V (Class R or J)
hort-circuit current rating	
material of the conductor at contactor for auxiliary contacts	CU
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
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)
tightening torque [lbf in] at contactor for auxiliary contacts	10 15 lbf·in
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals
material of the conductor at magnet coil	CU
temperature of the conductor at magnet coil maximum permissible	75 °C
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
maximum permissible material of the conductor for load-side outgoing feeder	AL or CU
for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	75 °C
tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables	1x (14 2 AWG)
type of electrical connection for load-side outgoing feeder	Screw-type terminals 45 45 lbf-in
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	
type of connectable conductor cross-sections at line-side for	1x (14 2 AWG)
tightening torque [lbf·in] for supply	45 45 lbf-in
fastening method type of electrical connection for supply voltage line-side	Screw-type terminals
mounting position	Vertical Surface mounting and installation
lounting/wiring	Vertical
design of the housing	dustproof and drip-proof for indoor use
degree of protection NEMA rating of the enclosure	NEMA Type 12
nclosure	
OFF-delay time	10 24 ms
ON-delay time	19 29 ms
percental drop-out voltage of magnet coil related to the input voltage	50 %
operating range factor control supply voltage rated value of magnet coil	0.85 1.1

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