SIEMENS

Data sheet

US2:40EP820F



Non-reversing contactor, Size 1 3/4, Three phase full voltage, Contactor amp rating 40A, 3 wire (NO aux included), 110V 50Hz / 120V 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	345VA@115VAC / 768VA@240VAC
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
• at AC at 50 Hz rated value	110 V
• at AC at 60 Hz rated value	120 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 VA

1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 75 °C CU 10kA@600V (Class H or K); 100kA@600V (Class R or J) Thermal magnetic circuit breaker 14 A 10 A 10 A NEMA ICS 2; UL 508; CSA 22.2, No.14	
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75 °C CU	
75 °C	
75 °C	
1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
10 15 lbf in	
Screw-type terminals	
CU	
75 °C	
2x (16 12 AWG)	
5 12 lbf-in	
Screw-type terminals	
AL or CU	
75 °C	
1x (14 2 AWG)	
45 45 lbf·in	
Screw-type terminals	
AL or CU	
75 ℃	
1x (14 2 AWG)	
45 45 lbf·in	
Screw-type terminals	
Surface mounting and installation	
Vertical	
Mounting/wiring	
dustproof and drip-proof for indoor use	
NEMA Type 12	
10 24 ms	
19 29 ms	
50 %	
25 VA 0.85 1.1	

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=US2:40EP820F Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:40EP820F

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40EP820F&lang=en Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:40EP820F/certificate

> 320.5 254 ŧ \oplus 330.2 311.2 Ð (1) (1) (1) (1) (1) (1) (1) (1) 22.2 136.5 WIRING DIAGRAM TO SUPPLY ALTERNATE CONNECTIONS FOR Ĺ1 L2 L3 TRANSFORMER IF PROVIDED **IF PROVIDED** FUSE IF PROVIDED 1 O 3 6 Q v W **X**1 H4 М \cap MAY BE H2 GROUNDED BY **∠ L.B**. C lilli "B" Pri Sec PURCHASER H3 X2 T3 H1 **T**1 T2 2 Q **H2** O -O**X1** 00000000000 IIIIIIIIIIII CONNECTIONS T2 **IF PROVIDED** FOR Pri Sec SINGLE VOLTAGE **T1 T**3 MOTOR TRANSFORMER **H1**O-• **X**2

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