SIEMENS

Data sheet US2:40GP820A



Non-reversing contactor, Size 2 1/2, Three phase full voltage, Contactor amp rating 60A, 3 wire (NO aux included), 110-120/220-240VAC 60Hz coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors, Extra-wide enclosure

design of the product special product feature Half-size controller; Dual voltage coil General technical data weight [Ib] 18		01 40
Special product feature Seneral technical data Weight [Ib] Height x Width x Depth [in] 16 x 13 x 6 in NA for enclosed products Installation altitude [ft] at height above sea level maximum ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during operation • 20 + 65 °C • during operation • USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/230 V rated value • at 220/230 V rated value • at 675/600 V rated value • at 60 Na contacts for main contacts so operating outage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value • 60 A mechanical service life (operating cycles) of the main contacts typical number of NC contacts for outsides for naviliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at c	product brand name	Class 40
weight [Ib] 18 lb Height x With x Depth [In] 18 x 13 x 6 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		· ·
weight [ib] 18 ib Height x Width x Depth [in] 16 x 13 x 6 in ouch protection against electrical shock NA for enclosed products installation altitude [it] at height above sea level maximum 6560 it ambient temperature [F] - 22 +149 °F • during storage - 30 +65 °C • during storage - 30 +65 °C • during poperation 220 +40 °C country of origin USA dorsopower ratings Visided mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 15 hp • at 220/230 V rated value 20 hp • at 460/480 V rated value 30 hp • at 375/600 V rated value 30 hp • at 75/600 V rated value 30 hp • at 75/600 V rated value 600 V • at 75/600 V rated value 600 V • at 200/230 V rated value 600 V • at 200/230 V rated value 600 A • at 200/230 V rated value 600 V • at 200/230 V rated value 600 V • at 200/230 V rated value 600 V • at 200/230 V rated va	· ·	Half-size controller; Dual voltage coil
Height x Width x Depth [in] touch protection against electrical shock NA for enclosed products installation altitude [it] at height above sea level maximum ambient temperature [*F] • during storage • during operation • during storage • during storage • during operation • at 2000208 V rated value • at 2000208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 675/600 V rated value • at 675/600 V rated value • operational current at AC at 600 Hz maximum operational current at AC at 600 V rated value operational current at AC at 600 V rated	General technical data	
touch protection against electrical shock installation altitude (ft) at height above sea level maximum 6560 ft ambient temperature ["F]	weight [lb]	18 lb
installation altitude [ft] at height above sea level maximum ambient temperature [FT] • during storage • during operation 2-0+40 °C country of origin USA **Insert Proposer ratings** yielded mechanical performance [hp] for 3-phase AC motor • at 200/209 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 675/600 V rated value • at 675/600 V rated value • at 675/600 V rated value **Insert Proposer Prop	Height x Width x Depth [in]	16 × 13 × 6 in
ambient temperature [*F] • during storage • during operation • during storage • during storage • during operation • during storage • during operation • during storage • during operation • during operation • 220 +40 °C country of origin USA **Country of origin yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 420/280 V rated value • at 460/480 V rated value • at 675/600 V rated value • at 60/480 V rated value • at 675/600 V rated value • at 675/600 V rated value • at 675/600 V rated value • at 60/480 V rated value • at 675/600 V rated value • bood values for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value • at 60 A maximum operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational service life (operating cycles) of the main contacts typical number of NC contacts at contactor for auxiliary contacts 10000000 number of NC contacts at contactor for auxiliary contacts 1 00000000 number of NC contacts at contactor for auxiliary contacts 1 00000000 contact rating of auxiliary contacts maximum 7 00000000000000000000000000000000000	touch protection against electrical shock	NA for enclosed products
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during operation	ambient temperature [°F]	
ambient temperature • during storage • during operation Country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 4575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Operating voltage for main current circuit at AC at 60 Hz maximum operating luring at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 1 0000000 number of NC contacts at contactor for auxiliary contacts 1 0000000 number of NC contacts at contactor for auxiliary contacts 1 0000000 number of NC contacts at contactor for auxiliary contacts AC contact rating of auxiliary contacts of contactor according to UL Total Contacts at Contacts at Contactor according to UL Total Contacts at Contacts at Contactor according to UL Total Contacts at Contacts at Contactor according to UL Total Contacts at Contacto	during storage	-22 +149 °F
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during operation country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value controller half size 2 1/2 number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts AC at 60 V lotage of the control supply voltage at AC at 60 Hz rated value 110 240 V holding power at AC minimum apparent pick-up power of magnet coil at AC 218 VA	ambient temperature	
country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 4575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor size of contactor size of contacts for main contacts 3 coperating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 60 A mechanical service life (operating cycles) of the main contacts typical number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	during storage	-30 +65 °C
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor Controller half size 2 1/2 number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 60 A mechanical service life (operating cycles) of the main contacts typical number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 10000000 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 type of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	during operation	-20 +40 °C
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 4575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor Size of contactor Size of contacts for main contacts 3 Operating voltage for main current circuit at AC at 60 Hz maximum Operational current at AC at 600 V rated value 60 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Total Contact at Control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	country of origin	USA
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• at 575/600 V rated value Size of contactor Size of contactor Size of contactor Controller half size 2 1/2 1 umber of NO contacts for main contacts Operating voltage for main current circuit at AC at 60 Hz maximum Operational current at AC at 600 V rated value Mechanical service life (operating cycles) of the main contacts typical Number of NC contacts at contactor for auxiliary contacts 1 umber of NC contacts at contactor for auxiliary contacts 1 umber of NO contacts at contactor for auxiliary contacts 1 umber of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coil Stype of voltage of the control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	• at 220/230 V rated value	20 hp
Size of contactor Size of contactor Number of NO contacts for main contacts Operating voltage for main current circuit at AC at 60 Hz maximum Operational current at AC at 600 V rated value Mechanical service life (operating cycles) of the main contacts typical Number of NC contacts at contactor for auxiliary contacts Number of NC contacts at contactor for auxiliary contacts Number of total auxiliary contacts maximum Tocontact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC Control supplove and AC at 60 Hz rated value and AC at 60 Hz rated value and AC at 60 Hz rated value apparent pick-up power of magnet coil at AC Control supply voltage apparent pick-up power of magnet coil at AC Control suppose and AC at 60 Hz rated value apparent pick-up power of magnet coil at AC AC control supply power of magnet coil at AC AC control supply power of magnet coil at AC AC control supply power of magnet coil at AC AC control supply power of magnet coil at AC AC control supply power of magnet coil at AC AC control supply power of magnet coil at AC Control supply power of magnet coil at AC AC control supply power of magnet coil at AC	• at 460/480 V rated value	30 hp
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maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rounded of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC at 10000000 10000000 100000000 100000000	number of NO contacts for main contacts	3
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Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage • at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC ontacts at contactor for auxiliary contacts 1 10A@600VAC (A600), 5A@600VDC (P600) AC control supply voltage • at AC at 60 Hz rated value 110 240 V AC 218 VA	operational current at AC at 600 V rated value	60 A
number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage o at AC at 60 Hz rated value AC AC AC AC AC AC AC AC AC A		10000000
number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC 1 10A@600VAC (A600), 5A@600VDC (P600) 10A@600VAC (A600), 5A@600VDC (P600) 10A@600VAC (A600), 5A@600VDC (P600) 218 VA	Auxiliary contact	
number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage out AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC 7 10A@600VAC (A600), 5A@600VDC (P600) AC AC 110 240 V 8.6 W 218 VA	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) type of voltage of the control supply voltage control supply voltage at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC 10A@600VAC (A600), 5A@600VDC (P600) AC 218 VA	number of NO contacts at contactor for auxiliary contacts	1
type of voltage of the control supply voltage outrol supply voltage outrol supply voltage understand the training of the control supply voltage to at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage outrol supply voltage outrol supply voltage to at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage • at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	Coil	
• at AC at 60 Hz rated value 110 240 V holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	type of voltage of the control supply voltage	AC
holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA	control supply voltage	
apparent pick-up power of magnet coil at AC 218 VA	at AC at 60 Hz rated value	110 240 V
	holding power at AC minimum	8.6 W
apparent holding power of magnet coil at AC 25 VA	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 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	Box lug
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	Box lug
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 (lcu)	
• 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)

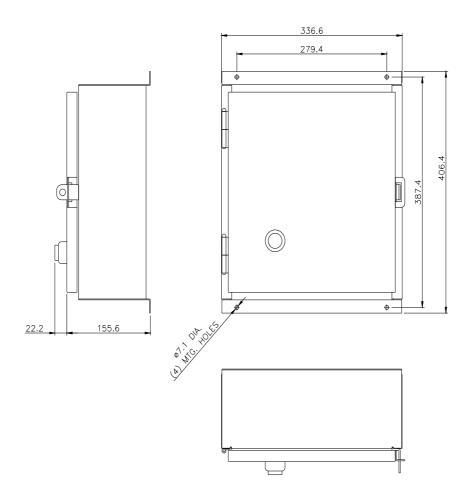
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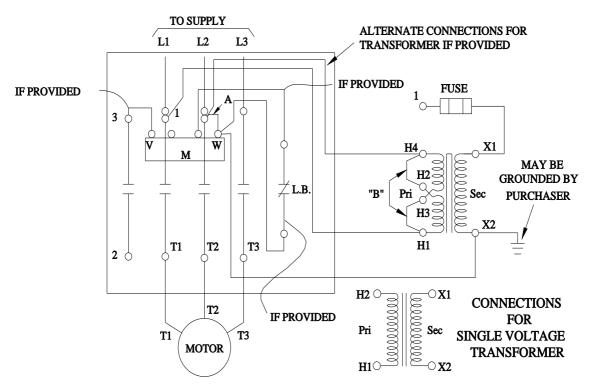
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Certificates/approvals

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WIRING DIAGRAM



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