SIEMENS

Data sheet US2:40HP12BG



Non-reversing NEMA contactor, Size 3, Single phase full voltage, Contactor amprating 90A, 3 wire (NO aux included), 190-220/220-240V 50/60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use, Standard width enclosure

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]	25 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 single-phase AC motor		
• at 115 V rated value	7.5 hp	
• at 200/208 V rated value	15 hp	
• at 220/230 V rated value	15 hp	
• at 460/480 V rated value	0 hp	
• at 575/600 V rated value	0 hp	
Contactor		
size of contactor	NEMA controller size 3	
number of NO contacts for main contacts	2	
operating voltage for main current circuit at AC at 60 Hz maximum	240 V	
operational current at AC at 600 V rated value	90 A	
mechanical service life (operating cycles) of the main contacts typical	5000000	
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), 5A@600VDC (P600)	
Coil		
type of voltage of the control supply voltage	AC	
control supply voltage		
• at AC at 50 Hz rated value	190 220 V	
at AC at 60 Hz rated value	220 240 V	

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holding power at AC minimum	14 W	
apparent pick-up power of magnet coil at AC	310 VA	
apparent holding power of magnet coil at AC	26 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	26 41 ms	
OFF-delay time	14 19 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	Box luq	
tightening torque [lbf-in] for supply	120 120 lbf-in	
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1x (14 2/0 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	120 120 lbf·in	
type of connectable conductor cross-sections for AWG cables	1x (14 2/0 AWG)	
for load-side outgoing feeder single or multi-stranded	75 °C	
temperature of the conductor for load-side outgoing feeder maximum permissible		
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=US2:40HP12BG

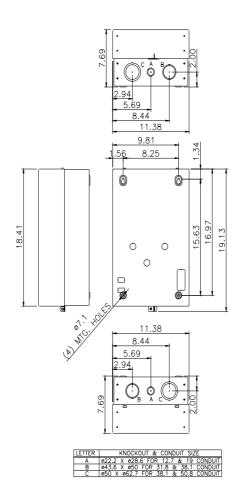
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:40HP12BG

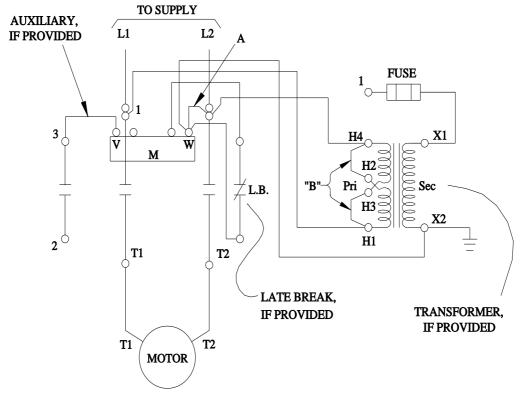
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40HP12BG&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:40HP12BG/certificate



WIRING DIAGRAM



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