



Figure similar

Reversing motor starter, Size 00, Single Phase, 2-Pole, Amb. compensate bimetal OLR, Contactor amp rating 9A, Non-combination type, Enclosure type 1, Indoor general purpose use

product brand name
design of the product
special product feature

Class 14 & 22
Full-voltage reversing motor starter
Dual voltage coil

General technical data

weight [lb] 23 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 0.33 hp

Contactors

size of contactor NEMA controller size 00
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 9 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 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
apparent holding power of magnet coil at AC 25 VA
operating range factor control supply voltage rated value 0.85 ... 1.1

of magnet coil	
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
Overload relay	
product function	Yes
• overload protection	Yes
• test function	Yes
• external reset	Yes
reset function	Manual and automatic
adjustment range of thermal overload trip unit	0.85 ... 1.15
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	0
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	5 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 5A@250VDC (P300)
Enclosure	
degree of protection NEMA rating	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	20 ... 20 lbf-in
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	35 ... 50 lbf-in
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 at 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 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 at 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
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
tightening torque [lbf-in] at overload relay for auxiliary contacts	5 ... 12 lbf-in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded	2x (16 ... 12 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay 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 kA

- at 480 V
- at 600 V

certificate of suitability

10 kA

10 kA

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=US2:22BP12BA81>

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

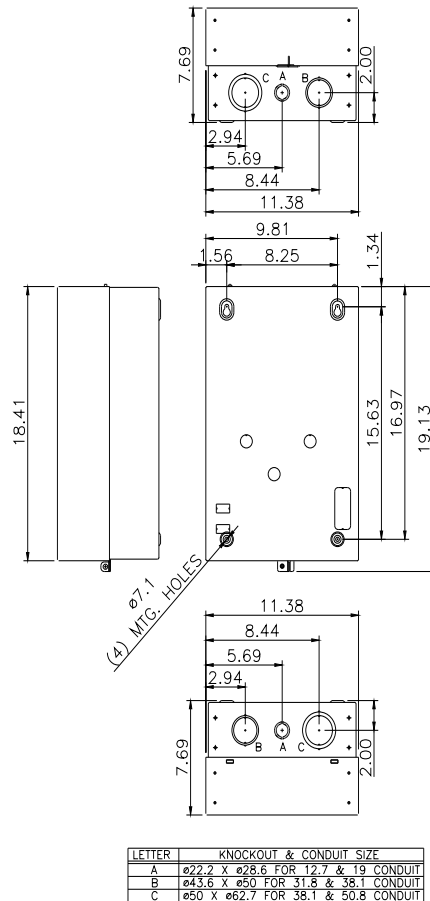
<https://support.industry.siemens.com/cs/US/en/ps/US2:22BP12BA81>

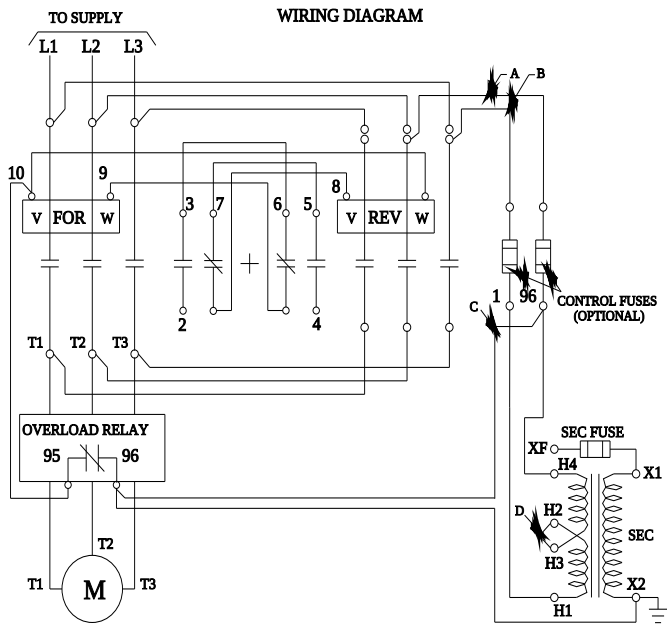
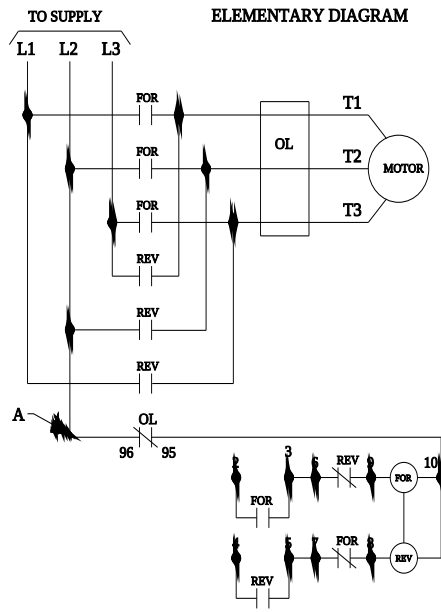
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22BP12BA81&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:22BP12BA81/certificate>





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