## **SIEMENS**

Data sheet US2:17EUE82BD13



Non-reversing motor starter, Size 1 3/4, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 208VAC 60Hz coil, Combination type, 60A fusible disconnect, 60A/600V fuse clip, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

product brand name	Class 17
design of the product	Non-reversing motor starter with fusible disconnect
special product feature	ESP200 overload relay; Half-size controller
General technical data	
weight [lb]	47 lb
Height x Width x Depth [in]	24 × 20 × 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 3-phase AC motor	
• at 200/208 V rated value	0 hp
• at 220/230 V rated value	0 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	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	208 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

precental drop-out voltage of magnet coil related to the input voltage percental drop-out voltage of magnet coil related to the input voltage of product function  Overfood protection  Prakes failure detection  Pass reground fault detection  Pass reground fault detection  Pass reground fault detection  Pass reset function  External reset  Pass reset function  Manual, automatic and remote this class of the function of the current response value current of the current for the current response value current of the current for the current reported release for the control of the current related to the current reported voltage reported reported voltage reported report	operating range factor control supply voltage rated value of	0.85 1.1
ON-delay time 19 29 ms OF-delay time 10 24 ms OF-delay time 10 24 ms OF-delay time 10 24 ms  Orevious dratay product function • overload protection • phase failure detection • phase failure detection • ground fault detection • ground fault detection • external reset • ground fault detection • external reset • yes • adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum • relative repeat accuracy • 1% • product feature protective coating on printed-circuit board • yes • author of NC contacts of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay • with single-phase operation at AC rated value • with multi-phase operation of a AC rated value • with multi-phase operation at AC rated value • with multi-phase operation • (alsa R tuse clips • (alsa R tuse clips • (alsa R tuse clips • (alsa	percental drop-out voltage of magnet coil related to the input	50 %
OFF-delay time		10 20 mg
product function  • overload protection • overload protection • overload protection • overload protection • phase failure detection • symmetry detection • ground fault detection • test function  Manual, automatic and remote  (CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overfload release  tripping time at phase-loss maximum 3 s relative repeat accuracy  product feature protective coating on printed-circuit board  rumber of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  • at DC at 250 V  • at DC at 250 V  with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • operating class of the fuse link  Class R fuse clips  operating class of the fuse link  Class R fuse clips  operating class of the fuse link  Class R  Mounting/wring  mounting position  fastening method  surface mounting and installation  ype of electrical connection for supply voltage line-side  type of connectable conductor cross-sections at line-side for AVIC cables single or multi-stranded  temperature of the conductor for supply maximum permissible  temperature of the conductor for supply maximum permissible  temperature of the conductor for supply maximum permissible	<u> </u>	
product function  • overload protection  • phase failur detection  • product function  • ground fault detection  • extermal reset  • est function  • extermal reset  reset function  • annual, automatic and remote  trip class  class G 1/10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overload release  reper function  10 40 A  replace the set phase-loss maximum  3 s  relative repeat accuracy  product feature protective coating on printed-circuit board  yes  number of NC contacts of auxiliary contacts of overload relay  porerational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  • at DC at 250 V  • at DC at 250 V  • with multi-phase operation at AC rated value  • with single-phase operatio	•	10 Z4 IIIS
overload protection     phase failure detection     asymmetry detection     eground fault detection     Yes     ground fault detection     Yes     test function     test function     external reset     yes reset function     Manual, automatic and remote     ctacks \$ 6 / 10 / 20 (factory set) / 30     adjustable current response value current of the current-dependent overload release     tripping time at phase-loss maximum     relative repeat accuracy     product feature protective coating on printed-circuit board     yes     at A C at 600 V     • at DC at 250 V          1 A		
phase failure detection asymmetry detection yes centernal reset reset function extend freset yes  external reset yes  CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum  relative repeat accuracy 1040 A  relative repeat accuracy 11% product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay 1040 A  relative ropeat accuracy 1040 A  relative ropeat accuracy 11% product feature protective coating on printed-circuit board yes number of NC contacts of auxiliary contacts of overload relay 11 number of NC contacts of auxiliary contacts of overload relay 12 13	•	Voc
asymmetry detection ground fault detection test function test function  external reset Yes  reset function  Manual, automatic and remote  trip class CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum  relative repeat accuracy 1 %  product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay  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  with single-phase operation at AC rated value 600 V with multi-phase operation at AC rated value 300 V  Disconnect Switch  response value of switch disconnector design of fuse holder Operating class of the fuse link  Enclosure  degree of protection NEMA rating fastening method type of electrical connection for supply voltage line-side type of electrical connection for supply voltage line-side for AWC acids single or multi-stranded temperature of the conductor for supply maximum permissible  75 °C  Lass R  Test Switch  Test Signed multi-phase operation at AC rated value  and the fuse link  Enclosure  degree of protection NEMA rating fastening method type of electrical connection for supply voltage line-side fastening method type of connectable conductor cross-sections at line-side for AWC acids single or multi-stranded temperature of the conductor for supply maximum permissible  Type of connectable conductor for supply maximum permissible	•	
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• (test function • external reset Yes reset function  Manual, automatic and remote  trip class CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum 3 s relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay • with single-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation of the context of context of the series of t		
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dependent overload release  tripping time at phase-loss maximum  3 s  relative repeat accuracy  product feature protective coating on printed-circuit board  number of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to  UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  operating class of the fuse link  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  class R  class R  degree of protection NEMA rating  design of the housing  indoors, usable on a general basis  Mounting/wiring  mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor ror supply maximum permissible  temperature of the conductor for supply maximum permissible  75 °C	·	
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product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Class R fuse clips operating class of the fuse link Class R  Enclosure  degree of protection NEMA rating 1 design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [librin] for supply 15 C  V S C  V S C  V S C  V S A  A A  A A  A A  A A  A A  A A  A	· · · · · · ·	
number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Class R Enclosure degree of protection NEMA rating design of the housing mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [libf-in] for supply type of connectable conductor for supply maximum permissible temperature of the conductor for supply maximum permissible  75 °C	· · · · · · · · · · · · · · · · · · ·	
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operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • operating class of tuse holder  class R fuse clips  operating class of the fuse link  Class R   Class R   Class R    Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [libf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  75 °C		
at AC at 600 V at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  with single-phase operation at AC rated value with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  overline  response value of switch disconnector design of fuse holder operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating design of the housing  mounting/wiring  mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [libf·in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible  75 °C  1 A  1 A  1 A  2 AWG  1 A  1 A  2 AWG  2 CR300  1 A  2 AWG  1 A  2 AWG  2 CR300  1 A  2 AWG  1 A  2 AWG  2 CR300  1 A  2 AWG  1 A  2 AWG  2 CR300  1 A  2 AWG  1 A  2 AWG  2 CR300  1 A  2 AWG  1 A  2 AWG  2 CR300  1 A  2 AWG  2 AWG  2 AWG  2 AWG  2 AWG  3 A  3 A  4 A  4 A  4 A AWG  4 AW	·	1
at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  a with single-phase operation at AC rated value  b with multi-phase operation at AC rated value  cwith multi-phase operation at AC rated value  bisconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating  design of the housing  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  75 °C   1 A  5A@600VAC (B600), 1A@250VDC (R300)  1A  5A@600VAC (B600), 1A@250VDC (R300)  1A@250VDC (R300)  1A  1A  1A  1A  1A  1A  1A  1A  1A  1		
contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating  design of the housing  mounting /wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  75 °C		
insulation voltage (Ui)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 300 V  Disconnect Switch  response value of switch disconnector design of fuse holder operating class of the fuse link Class R  Enclosure  degree of protection NEMA rating design of the housing mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible  600 V 6	• at DC at 250 V	1A
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     300 V  Disconnect Switch  response value of switch disconnector     design of fuse holder     operating class of the fuse link  Enclosure  degree of protection NEMA rating     design of the housing  mounting/wiring  mounting position     type of electrical connection for supply voltage line-side tightening torque [libf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible  600 V  300 V  600		5A@600VAC (B600), 1A@250VDC (R300)
with multi-phase operation at AC rated value    Disconnect Switch	insulation voltage (Ui)	
Disconnect Switch response value of switch disconnector  design of fuse holder operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating design of the housing  mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible  60A / 600V Class R  Class R  1  Class R  Surface mounting  vertical Surface mounting and installation type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible  75 °C	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating  design of the housing  mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  Class R  Class R  Lass Lass Lass Lass Lass Lass Lass Las		300 V
design of fuse holder  operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating  design of the housing  mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  Class R fuse clips  Class R fuse clips  Class R  Box lug  1  Surface mounting and installation  1  1  1  1  1  1  1  1  1  1  1  1  1	Disconnect Switch	
operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating	•	60A / 600V
degree of protection NEMA rating  design of the housing  indoors, usable on a general basis  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  1  1  1  1  1  1  1  1  1  1  1  1  1		Class R fuse clips
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 lug tightening torque [lbf-in] for supply 35 35 lbf-in type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible 75 °C	· · · ·	Class R
Mounting/wiring       vertical         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       35 35 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	degree of protection NEMA rating	1
mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  vertical  Surface mounting and installation  Box lug  1x (14 2 AWG)  1x (14 2 AWG)	design of the housing	indoors, usable on a general basis
fastening method  type of electrical connection for supply voltage line-side  tightening torque [libf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  Surface mounting and installation  Box lug  1x (14 2 AWG)  1x (14 2 AWG)  75 °C	Mounting/wiring	
type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  35 35 lbf·in  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  75 °C	mounting position	vertical
tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  35 35 lbf·in  1x (14 2 AWG)  75 °C	fastening method	Surface mounting and installation
tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  35 35 lbf·in  1x (14 2 AWG)  75 °C	·	
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  75 °C	· · · · · · · · · · · · · · · · · · ·	
	type of connectable conductor cross-sections at line-side for	1x (14 2 AWG)
	temperature of the conductor for supply maximum permissible	75 °C
		AL or CU
type of electrical connection for load-side outgoing feeder  Screw-type terminals		Screw-type terminals
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)	type of connectable conductor cross-sections for AWG cables	1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible  75 °C	temperature of the conductor for load-side outgoing feeder	75 °C
material of the conductor for load-side outgoing feeder AL or CU	·	AL or CU
type of electrical connection of magnet coil  Screw-type terminals		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
AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	•	OH
AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	material of the conductor at magnet coil	CU
AWG cables single or multi-stranded  temperature of the conductor at magnet coil 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)
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	7 10 lbf-in
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded	2x (20 14 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)
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=US2:17EUE82BD13

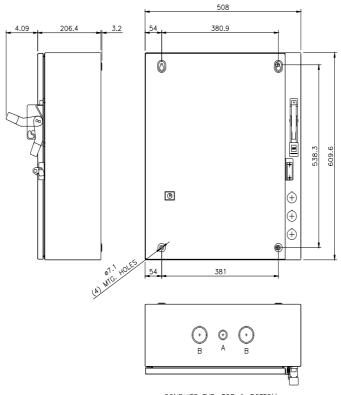
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:17EUE82BD13

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17EUE82BD13&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17EUE82BD13&lang=en</a>

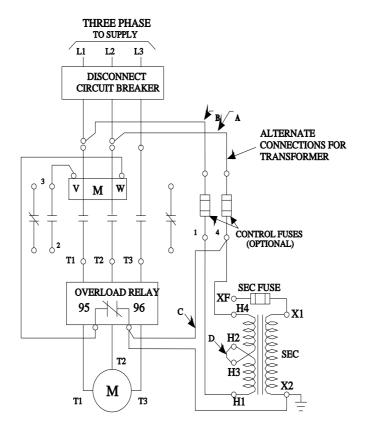
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17EUE82BD13/certificate



CONDUITS TYP. TOP & BOTTOM

ĺ	LETTER	CONDUIT SIZE
	Α	ø12.7 & ø19 CONDUIT
	В	ø31.8 & ø38.1 CONDUIT



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