SIEMENS

Data sheet

US2:40EP82WL



Non-reversing contactor, Size 1 3/4, Three phase full voltage, Contactor amp rating 40A, 3 wire (NO aux included), 240V 50Hz / 277V 60Hz coil, Non-combination type, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, 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	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	240 V
• at AC at 60 Hz rated value	277 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 VA

Depraining range factor control supply voltage rated value of magnet coll 0.85 1.1 percental drop-out voltage of magnet coll related to the input voltage 50 % ON-delay time 19 29 ms OFF-delay time 10 24 ms Enclosuro MEMA 4x 304 stainless steel enclosure degree of protection NEMA rating of the enclosure MEMA 4x 304 stainless steel enclosure design of the housing dustproof & resistant to corrosion Mounting/wring mounting position fastening method Surface mounting and installation type of electrical connectable conductor cross-sections at line-side for 1x (14 2 AWG) Wype of electrical connectable conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder Screw-type terminals tightening torque [bit-in] for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder <	apparent holding power of magnet coil at AC	25 VA
magnet coll Figure 1 percental drop-out voltage of magnet coll related to the input voltage 50 % ON-delay time 10 24 ms Enclosure 10 24 ms Enclosure waterproof & resistant to corrosion Mounting Wiring Wertical mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Surface mounting and installation type of electrical connection for supply moltage line-side Surface mounting and installation type of electrical connection for supply moltage line-side Surface mounting and installation type of electrical connection for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75 °C for load-side outgoing feeder 45 45 lbrlin type of electrical connection for load-side outgoing feeder 1x (14 2 AWG) torolad to the conductor for load-side outgoing feeder 1x (14 2 AWG) torolad to the conductor for load-side outgoing feeder 1x (16 12 AWG) torolad to the conductor for load-side outgoing feeder 5 (12 12 AWG) torolad to the		
VoltageVoltageVoltageON-delay time19 29 msOFF-delay time10 24 msEnclosureNEMA 4x 304 stainless steel enclosuredegree of protection NEMA rating of the enclosureMeXA x 304 stainless steel enclosuredesign of the housingdustproof, waterproof & resistant to corrosionMounting/wiringmounting positionMounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [librin] for supply45 45 lbrintype of electrical conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder45 45 lbrintype of electrical connection for load-side outgoing feeder45 45 lbrintype of electrical connection for load-side outgoing feeder1x (14 2 AWG)transmum permissible75 °Cmaterial of the conductor for load-side outgoing feeder42 42 lbrintype of electrical connection for load-side outgoing feeder2x (16 12 AWG)tightening torque [librin] at magnet coil5 Crew-type terminalstightening torque [librin] at magnet coil5 Crew-type terminalstightening torque [librin] at magnet coil maximum75 °Cmaterial of the conductor rors-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conducto		0.00 1.1
OFF-delay time 10 24 ms Enclosure NEMA 4x 304 stainless steel enclosure degree of protection NEMA rating of the enclosure MUSA 4x 304 stainless steel enclosure design of the housing dustproof, waterproof & resistant to corrosion Mounting/wiring mounting position mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [Ibf in] for supply 45 45 lbf in type of onnectable conductor cross-sections at line-side for At/(4 2 AWG) AWG cables single or mult-stranded tx (14 2 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 45 45 lbf in type of electrical connection for load-side outgoing feeder 45 45 lbf in temperature of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 20 12 lbf in type of electrical connection of magnet coil		50 %
Enclosure NEMA 4x 304 stainless steel enclosure design of the housing dustproof, waterproof & resistant to corrosion Mounting/viring	ON-delay time	19 29 ms
degree of protection NEMA rating of the enclosure NEMA 4x 304 stainless steel enclosure design of the housing dustproof, waterproof & resistant to corrosion Mounting voiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [bf-in] for supply 45 45 lbF in type of connectable conductor cross-sections at line-side for At/ 2 AWG) AWG cables single or multi-stranded Ts "C material of the conductor for supply maximum permissible 75 "C material of the conductor for load-side outgoing feeder 45 45 lbF in type of electrical connection for load-side outgoing feeder 45 45 lbF in type of electrical connection for load-side outgoing feeder 1x (14 2 AWG) transmum permissible Ts "C material of the conductor for load-side outgoing feeder AL or CU type of electrical connection for load-side outgoing feeder AL or CU type of electrical connection for load-side outgoing feeder AL or CU type of electrical connection of magnet coil Screw-type terminals tightening torque [bf-in] at magnet coi	OFF-delay time	10 24 ms
design of the housing dustproof, waterproof & resistant to corrosion Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals 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 of electer Screw-type terminals tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in type of electrical connection for load-side outgoing feeder 5 crew-type terminals tightening torque [lbf-in] for load-side outgoing feeder 1x (14 2 AWG) for load-side outgoing feeder 1x (14 2 AWG) for load-side outgoing feeder 75 °C maximum permissible 75 °C material of the conductor for load-side outgoing feeder 2x (14 2 AWG) type of electrical connection of magnet coil 5 crew-type terminals tightening torque [lbf-in] at magnet coil 5 12 lbf in type of electrical connection of magnet coil 5 12 lbf in	Enclosure	
Mounting/wiring Vertical mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [Ibf-in] for supply 45 45 Ibf-in type of connectable conductor cross-sections at line-side for AVKG 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 coulding feeder Screw-type terminals tightening torque [Ibf-in] for load-side outgoing feeder 45 45 Ibf-in type of electrical connection for load-side outgoing feeder 1x (14 2 AWG) for load-side outgoing feeder single or multi-stranded 1x (14 2 AWG) temperature of the conductor row-sections for AWG cables 75 °C 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 [Ibf-in] at magnet coil 5 42 Ibf-in type of electrical connection of magnet coil for AWG cables single or multi-stranded 2x (16 12 AWG) temperature of the	degree of protection NEMA rating of the enclosure	NEMA 4x 304 stainless steel enclosure
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 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 maximum permissible 75 °C material of the conductor for supply feeder Screw-type terminals tightening torque [lbf in] for load-side outgoing feeder 45 45 lbf in type of connectable conductor for sose-sections for AWG cables 1x (14 2 AWG) for load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 1x (14 2 AWG) type of electrical connection of magnet coil 5 crew-type terminals tightening torque [lbf in] at magnet coil 5 12 lbf in type of electrical connection of magnet coil 5 12 lbf in type of electrical connection at contactor for auxiliary contacts 5 crew-type terminals tightening torque [lbf in] at magnet coil 5 °C <t< td=""><td>design of the housing</td><td>dustproof, waterproof & resistant to corrosion</td></t<>	design of the housing	dustproof, waterproof & resistant to corrosion
fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf in] for supply 45 45 lbf in type of connectable conductor cross-sections at line-side for 1x (14 2 AWG) AVVG cables single or multi-stranded 75 °C temperature of the conductor for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75 °C type of electrical connection for load-side outgoing feeder 45 45 lbf in type of connectable conductor for supply maximum permissible 75 °C temperature of the conductor for load-side outgoing feeder 45 45 lbf in type of connectable conductor for load-side outgoing feeder 1x (14 2 AWG) material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil 5 42 lbf in type of electrical connection of magnet coil 5 42 lbf in type of electrical connection at magnet coil maximum 75 °C material of the conductor at magnet coil maximum 75 °C material of the conductor at magnet coil maximum 75 °C <td>Mounting/wiring</td> <td></td>	Mounting/wiring	
type of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply45 45 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supplyAL or CUtype of electrical connectable conductor rorsos-sections of AWG cablesScrew-type terminalstightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for load-side outgoing feeder45 45 lbf-intype of connectable conductor ross-sections for AWG cables1x (14 2 AWG)for load-side outgoing feeder single or multi-stranded75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor ross-sections of magnet coil2x (16 12 AWG)tumpermissible75 °Cmaterial of the conductor at magnet coil5 12 lbf-intype of electrical connection at contactor for auxiliary contacts5 crew-type terminalstightening torque [lbf-in] at contactor for auxiliary contacts5 crew-type terminalstightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of electrical connection at contactor for auxiliary contacts10 14 AWG), 2x (16 14 AWG), 2x (18 16	mounting position	Vertical
tightening torque [lbf-in] for supply45 45 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder45 45 lbf-intightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of onnectable conductor rors-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor at magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Ctemperature of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of electrical connection at contactor for auxiliary contacts10 15 lbf-intype of electrical connection at contactor for auxiliary contacts10 16 lbf-intype of electrical connection at contactor for auxiliary contacts75 °Ctemper	fastening method	Surface mounting and installation
Up or connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 1x (14 2 AWG) 1x (14 2 AWG) 1x (14 2 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75 °C type of electrical connection for load-side outgoing feeder 45 45 lbf.in type of connectable conductor for load-side outgoing feeder 1x (14 2 AWG) totad-side outgoing feeder single or multi-stranded 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder AL or CU type of connectable conductor cross-sections of magnet coil 5 12 lbf.in type of connectable conductor at magnet coil 5 12 lbf.in type of electrical connection at contactor for auxiliary contacts Screw-type terminals tightening torque [lbf-in] at	type of electrical connection for supply voltage line-side	Screw-type terminals
ÁWG cables single or multi-strandedAtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder5crew-type terminalstightening torque [lbf in] for load-side outgoing feeder45 45 lbf intype of connectable conductor rors-sections for AWG cables1x (14 2 AWG)for load-side outgoing feeder single or multi-stranded75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet collScrew-type terminalstightening torque [lbf.in] at magnet coll5 12 lbf.intype of electrical connection at magnet coll maximum2x (16 12 AWG)wG cables single or multi-stranded75 °Cmaterial of the conductor at magnet coll maximum2x (16 12 AWG)permissibleCUtype of electrical connection at contactor for auxiliary contacts10 15 lbf intype of connectable conductor cross-sections at contactor for1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)tightening torque [lbf.in] at contactor for auxiliary contacts10 15 lbf intype of connectable conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts10 14 AWG)tightening torque [lbf.in] at contactor for auxiliary contacts10 14 AWG), 2x (18 16 AWG)	tightening torque [lbf·in] for supply	45 45 lbf·in
material of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor at magnet coil5 12 lbf-intype of electrical connection at contactor for auxiliary contacts75 °Camaterial of the conductor at magnet coil5 12 lbf-intype of electrical connection at contactor for auxiliary contacts75 °Camaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)tightening torque [lbf-in] at contactor for auxiliary contacts75 °Ctightening torque to the conductor at contactor for auxiliary contacts75 °Ctupe of connectable conductor rors-sections at contactor for auxiliary contacts11 (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)tupe of the conductor at contactor for auxiliary contacts75 °Ctupe of the conductor at contactor for auxiliary		1x (14 2 AWG)
type of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissibleScrew-type terminalstype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coil maximum permissible5 12 lbf-intype of electrical connection at contactor for auxiliary contacts2x (16 12 AWG)tightening torque [lbf-in] at contactor for auxiliary contactsCUtype of electrical connection at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded1x (12 AWG), 2x (18 16 AWG)tightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts10 15 lbf-intupe of the conductor at contactor for auxili	temperature of the conductor for supply maximum permissible	75 °C
Image: constraint of the conductor at magnet coll45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coil5 12 lbf-intype of connectable conductor at magnet coil maximum permissible2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Ctemperature of the conductor at magnet coil maximum permissible75 °Ctemperature of the conductor at magnet coil maximum permissible75 °Ctemperature of the conductor at magnet coil maximum permissible75 °Ctightening torque [lbf-in] at contactor for auxiliary contactsCUtype of electrical connection at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)type of connectable conductor at contactor for auxiliary contacts75 °Ctemperature of the conductor at contactor for auxiliary contacts75 °Ctemperature of the conductor at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts11 (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaximum permissible75 °C <td>material of the conductor for supply</td> <td>AL or CU</td>	material of the conductor for supply	AL or CU
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor rorss-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsCUtype of electrical connection at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)tightening torque [lbf-in] at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °Ctightening torque [lbf-in] at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)type of connectable conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °Cmaximum permissible75 °Cmaximum permissible75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °C	type of electrical connection for load-side outgoing feeder	Screw-type terminals
for load-side outgoing feeder single or multi-strandedThe for load-side outgoing feeder maximum permissiblematerial of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf-in] at contactor for auxiliary contactsCUtype of electrical connection at contactor for auxiliary contacts10 15 lbf-intype of electrical connection at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)type of connectable conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °Ctightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaximum permissible75 °Cmaximum permissible75 °C	tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf·in
maximum permissibleAL or CUmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf·in] at contactor for auxiliary contactsCUtype of connectable conductor at contactor for auxiliary contacts10 15 lbf·intype of connectable conductor at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaximum permissibleCU		1x (14 2 AWG)
type of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of connectable conductor cross-sections at contactor for auxiliary contacts10 15 lbf-intightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts11 12 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Ctightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts11 12 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °C		75 °C
tightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Ctightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaximum permissibleCU	material of the conductor for load-side outgoing feeder	AL or CU
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf·in] at contactor for auxiliary contacts10 15 lbf·intype of connectable conductor at contactor for auxiliary contacts1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Ctype of connectable conductor at contactor for auxiliary contacts10 15 lbf·intype of connectable conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts10 15 lbf·intype of connectable conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contacts75 °C	type of electrical connection of magnet coil	Screw-type terminals
AWG cables single or multi-stranded75 °Ctemperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contactsCU	tightening torque [lbf·in] at magnet coil	5 12 lbf·in
permissibleCUmaterial of the conductor at magnet coilCUtype of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf-in] at contactor for auxiliary contacts10 15 lbf-intype of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts75 °Cmaterial of the conductor at contactor for auxiliary contactsCU		2x (16 12 AWG)
type of electrical connection at contactor for auxiliary contactsScrew-type terminalstightening torque [lbf·in] at contactor for auxiliary contacts10 15 lbf·intype of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts maximum permissible75 °Cmaterial of the conductor at contactor for auxiliary contactsCU		75 °C
tightening torque [lbf·in] at contactor for auxiliary contacts10 15 lbf·intype of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)temperature of the conductor at contactor for auxiliary contacts maximum permissible75 °Cmaterial of the conductor at contactor for auxiliary contactsCU	material of the conductor at magnet coil	CU
type of connectable conductor cross-sections at contactor for 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 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 75 °C material of the conductor at contactor for auxiliary contacts CU	type of electrical connection at contactor for auxiliary contacts	Screw-type terminals
ÁWG cables for auxiliary contacts single or multi-stranded 1 temperature of the conductor at contactor for auxiliary contacts maximum permissible 75 °C material of the conductor at contactor for auxiliary contacts CU	tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in
maximum permissible material of the conductor at contactor for auxiliary contacts CU		1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
		75 °C
Short circuit current rating	material of the conductor at contactor for auxiliary contacts	CU
Short-circuit current rating	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)	•	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip Thermal magnetic circuit breaker	design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	maximum short-circuit current breaking capacity (Icu)	
• at 240 V 14 A	• at 240 V	14 A
• at 480 V 10 A	• at 480 V	10 A
• at 600 V 10 A	• at 600 V	10 A
certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

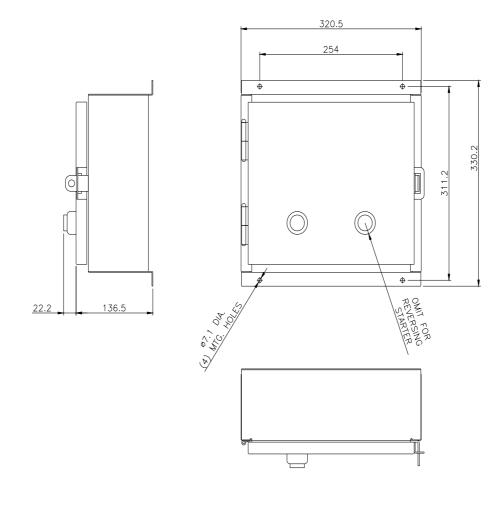
Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:40EP82WL Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:40EP82WL

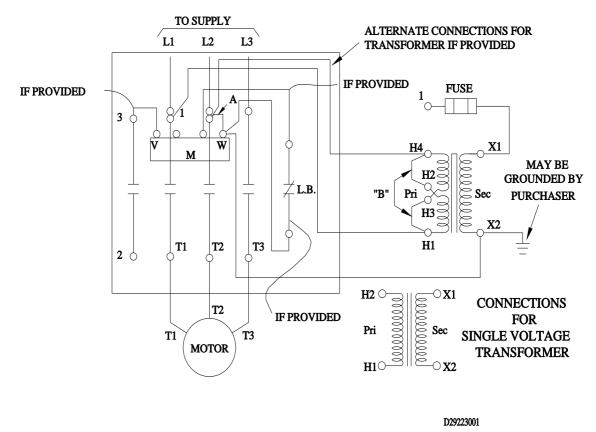
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:40EP82WL&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:40EP82WL/certificate



WIRING DIAGRAM



last modified:

1/25/2022 🖸

7/16/2023