## **SIEMENS**

Data sheet US2:83IUH95EJ



Duplex starter w/o alternator, Size 3 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 24VAC 50-60Hz coil, Non-combination type, Enc NEMA type 4 painted steel, Water/dust tight for outdoors

product brand name	Class 83	
design of the product	Duplex controller without alternator	
special product feature	Half-size controller; ESP200 overload relay	
General technical data		
weight [lb]	93 lb	
Height x Width x Depth [in]	29 × 23 × 9 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	30 hp	
• at 220/230 V rated value	40 hp	
• at 460/480 V rated value	75 hp	
• at 575/600 V rated value	75 hp	
Contactor		
size of contactor	Controller half size 3 1/2	
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	115 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 DC rated value	0 0 V	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	24 24 V	
at AC at 60 Hz rated value	24 24 V	
holding power at AC minimum	14 W	

spoems holding sower of magnet coil at AC coefficient processing range factor control supply voltage rated value of magnet coil processed action pout voltage of magnet coil related to the input voltage.  OFF-doily time 2241 ms OFF-doily time 2410 ms OFF-doily time 2541 ms OFF-doily time 254	apparent pick up power of recent to all at AC	240.\/A
Special prince factor control supply voltage rated value of mingrant coal processing drop-out voltage of magnet coal related to the input voltage of magnet coal related to the input voltage of NH-delay time   20 41 ms	apparent helding power of magnet coil at AC	310 VA
magnet coil voltage of magnet coil related to the input voltage of magnet coil related value and input voltage of magnet coil related value of protection and input voltage of magnet coil related value of protection and value of the conductor of related value of protection and value of the conductor of value		
workings OFF-delay time OFF-delay ti	magnet coil	
CPF-clated relay  roctated relay  roctated relay  roctated relay  roctated relay  roctated protection  • overload protection • overload protection • overload protection • overload protection • overload protection • sysymmetry defection • overload protection • sysymmetry defection • overload freetion  reset function  objectable current response value current of the current- objected to vertical debease  tripping time at phase-loss maximum  relative repeat accuracy  1 %  relative repeat accuracy  1 AC at 800 V  2 AC AC 800 OV  2 AC AC 800 OV  2 AC AC 800 OV  3 AC 800 OV  3 AC 800 OV  4 AC 800 OV  5 AC 800 OV  6 AC 8		50 %
Product function  • overloads protection • overload protection • phase failure detection • phase failure detection • phase failure detection • phase failure detection • ground fault detection • ground fault detection • external reset • external reset • external reset  reset function • external reset  reset function • external reset  reset function • phase-loss maximum  3 s relative repeat accuracy product feature penetieve coating on printed-circuit board typend ten at phase-loss maximum  7 s relative repeat accuracy 1 % relative repeat accuracy 2 % relative rel	ON-delay time	26 41 ms
product function  • overload protection • operload protection • phase failure detection • phase failure detection • phase failure detection • product detection • external reset • est function • external reset • est function • outlined the phase of the	OFF-delay time	14 19 ms
• vertical protection     • phase failure detection     • provided protection     • pround fault detection     • ground fault detection     • ground fault detection     • pround fault detection     • clest function     • cotternal reset     • provided protection     • provided provided protection     • provided protection     • provided provided protection     • provided provided protection     • pro	Overload relay	
Phase failure detection     Pes     Asymmetry detection     Pes     Ground failure detection     Pes     Peser function     Peser function     Adjustable current response value current of the current     Adjustable value value     The value value value     Adjustable value	product function	
• asymmetry detection • ground fault detection • cottomal reset • cottoma	<ul> <li>overload protection</li> </ul>	Yes
• ground fault detection • lest function • le	<ul> <li>phase failure detection</li> </ul>	Yes
* test function     * external reset     * ext	asymmetry detection	Yes
reset function Manual, automatic and remote adjustable current response value current of the current adjustable current response value current of the current dependent overfload release brighing time at phase-loss maximum 3 s s relative repeat accuracy 15% product feature protective coating on printed-circuit board 4 yes number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 2 at AC at 600 V 4 at DC at 250 V 5 A 1 A Contact of auxiliary contacts of overload relay 4 1 A Contact of auxiliary contacts of overload relay 5 A 1 A Contact of auxiliary contacts of overload relay 4 1 A Contact rating of auxiliary contacts of overload relay 4 1 A Contact rating of auxiliary contacts of overload relay according to UL insulation voltage (U) 5 A 1 A Contact rating of auxiliary contacts of overload relay according to UL insulation voltage (U) 5 A 1 A Contact rating of auxiliary contacts of overload relay according to UL insulation voltage (U) 600 V	ground fault detection	Yes
reset function adjustable current response value current of the current adjustable current response value current of the current adjustable current response value current of the current dependent overfload release topping time at phase-loss maximum	• test function	Yes
dejustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy 1 % relative repeat accuracy 1 % reported feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 at AC at 600 V 1 AC at 600 V 2 AC Contacts of auxiliary contacts of overload relay 1 AC at 600 V 2 AC DC at 250 V 3 AC at 600 V 4 With single-phase operation at AC rated value 4 with multi-phase operation at AC rated value 5 AC at 600 V 5 AC and according to the enclosure 6 AC at 600 V 5 AC and according to the enclosure 6 AC at 600 V 5 AC at 600 V 5 AC at 600 V 5 AC 600 V 5 AC 600 V 5 AC 600 V 5 AC 600 V 6 AC 7 AC 7 AC 600 V 7 AC	external reset	Yes
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 number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 2 at AC at 600 V 2 at DC at 250 V 3 at DC at 250 V 4 at DC at 250 V 5 A 3 AB600VAC (B600), TA@250VDC (R300) Unisulation voltage (UI) 4 with single-phase operation at AC rated value 4 with multi-phase operation at AC rated value 5 with multi-phase operation at AC rated value 6 with multi-phase operation at AC rated value 7 with multi-phase op	reset function	Manual, automatic and remote
relative repeat accuracy product feature protective coating on printed-circuit board Nes number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay a to AC at 800 V a 10 C at 250 V b 1 A 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 single-phase operation at AC rated value with multi-phase operation	,	50 200 A
relative repeat accuracy product feature protective coating on printed-circuit board yes 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 single-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation • Wertical  design of the housing  Mounting/winion  mounting position • Vertical  fastening method  type of electrical connection for supply voltage line-side  tightening torque [tbf-in] for supply  type of onectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor of magnet coil  type of electrical connection of magnet coil  type of electrical connection of magnet coil  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil of  AWG cables single or multi-stranded  temperature of the conductor of nead-side outgoing feeder  maximum permissible  material of the conductor at magnet coil  type of electrical connection of magnet coil  type of electrical connection of magnet coil  type of connectable conductor cross-sections of sometions of magnet coil  type of connectable conductor cross-sections of sometions of contactors  Serve		3 s
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 1 operational current of auxiliary contacts of overload relay 4 • at AC at 500 V 5 A • at DC at 250 V 1A contact rating of auxiliary contacts of overload relay according to 1U. insulation voltage (UI) • with single-phase operation at AC rated value 800 V • with multi-ph		1 %
number of NC contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay 2 operational current of auxiliary contacts of overload relay 4 at AC at 600 V at DC at 250 V bal DC at 250 V contact rating of auxiliary contacts of overload relay according to 5A & 6000VAC (B600), 1A@250VDC (R300)  Insulation voltage (UI) with single-phase operation at AC rated value 600 V with multi-phase operation at AC rated value 800 V with multi-phase operation at AC rated value 900 V well as material of the conductor for supply voltage line-side 900 V with multi-phase operation 900 V with	·	Yes
number of NO contacts of auxiliary contacts of overload relay e at AC at 600 V e at DC at 250 V 1A contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) e with single-phase operation at AC rated value e with multi-phase operation at AC rated value e with multi-phase operation at AC rated value e sognove the housing design of the housing mounting position mounting position mounting position fastening method Upper of electrical connection for supply voltage line-side subjected of the conductor for supply warmun permissible material of the conductor for toad-side outgoing feeder tupped or electrical connection for supply search and side outgoing feeder warmun permissible for load-side outgoing feeder single or multi-stranded temperature of the conductor for toad-side outgoing feeder AWG cables single or multi-stranded temperature of the conductor for cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder AWG cables single or multi-stranded temperature of the conductor for cross-sections of magnet coil type of one conductor of the conductor for cross-sections of magnet coil type of one conductor of the conductor of soud-side outgoing feeder AWG cables single or multi-stranded  permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum perm	·	
eat AC at 600 V eat DC at 250 V 1A  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) ewith single-phase operation at AC rated value ewith multi-phase operation	•	
• at AC at 600 V • at DC at 250 V • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • NEMA 4 enclosure • N		
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  **Teclosure**  degree of protection NEMA rating of the enclosure  design of the housing  **Mounting/wiring**  **Mounting/wiring**  **mounting position  fastening method  type of electrical connection for supply voltage line-side of the period of the conductor cross-sections at line-side for AWG cables single or multi-stranded  **temperature of the conductor for supply maximum permissible or light-nig for que [lib-in] for load-side outgoing feeder  tuppe of connectable conductor cross-sections of AWG cables single or multi-stranded  **type of connectable conductor for load-side outgoing feeder  tuppe of connectable conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor of road-side outgoing feeder  maximum permissible  material of the conductor of road-side outgoing feeder  maximum permissible  material of the conductor of road-side outgoing feeder  maximum permissible  material of the conductor of road-side outgoing feeder  maximum permissible  material of the conductor of road-side outgoing feeder  maximum permissible  material of the conductor at magnet coil  tupe of connectable conductor or ons-sections of magnet coil of AWG cables single or multi-stranded  temperature of the conductor at magnet coil  ype of connectable conductor or maximum permissible  mat		5 A
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  degree of protection NEMA rating of the enclosure  design of the housing  mounting position  for supply woltage line-side  tightening torque [IbFin] for supply  pye of electrical connection for supply voltage line-side  temperature of the conductor for supply maximum permissible  for load-side outgoing feeder  stightening torque [IbFin] for load-side outgoing feeder  trayer of electrical connection for supply  AL or CU  type of electrical connection for load-side outgoing feeder  stightening torque [IbFin] at magnet coil  temperature of the conductor for load-side outgoing feeder  stightening torque [IbFin] at magnet coil  temperature of the conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  tightening torque [IbFin] at magnet coil  stype of connectable conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  stype of connectable conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  stype of connectable conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  stype of connectable conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  stype of connectable conductor or ses-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  stype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  permissible  The conductor at magnet coil maximum  stype of connectable conductor at magnet coil maximum  permissible  The conductor at magnet coil maximum  type of connectable conductor at magn	• at DC at 250 V	1 A
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  ### A enclosure    degree of protection NEMA rating of the enclosure   design of the housing   dustproof, waterproof & weatherproof   Mounting/Wiring   mounting position   Vertical   fastening method   surface mounting and installation   type of electrical connection for supply voltage line-side   Box lug   tightening torque (Ibf-in) for supply   120 120 Ibf-in   type of connectable conductor cross-sections at line-side for   AWG cables single or multi-stranded   Type of electrical connection for supply maximum permissible   Ts "C   material of the conductor for supply maximum permissible   Ts "C   material of the conductor for load-side outgoing feeder   120 120 Ibf-in   type of electrical connection for load-side outgoing feeder   120 120 Ibf-in   type of electrical connection for load-side outgoing feeder   120 120 Ibf-in   type of electrical connection for load-side outgoing feeder   120 120 Ibf-in   type of electrical connection of magnet coil   Screw-type terminals     tightening torque (Ibf-in) at magnet coil   Screw-type terminals     tightening torque (Ibf-in) at magnet coil   CU     type of electrical connection of magnet coil maximum   Ts "C     type of electrical connection at contactor for auxiliary contacts   Screw-type terminals     tightening torque (Ibf-in) at contactor for auxiliary contacts   Screw-type terminals     tightening torque (Ibf-in) at contactor for auxiliary contacts   Screw-type terminals     tightening torque (Ibf-in) at contactor for auxiliary contacts   Screw-type terminals     tightening torque (Ibf-in) at contactor for auxiliary contacts   Screw-type terminals     tightening torque (Ibf-in) at contactor for auxiliary contacts   Screw-type terminals     tightening torque (Ibf-in) at contactor for auxiliary contacts   Screw-type terminals     tightening		5A@600VAC (B600), 1A@250VDC (R300)
■ with single-phase operation at AC rated value  ■ with multi-phase operation at AC rated value  ■ with multi-phase operation at AC rated value  ### Surface of protection NEMA rating of the enclosure    design of the housing   dustproof, waterproof & weatherproof   Mounting/wiring		
e with multi-phase operation at AC rated value  Briclosure  degree of protection NEMA rating of the enclosure  NEMA 4 enclosure  design of the housing  Mounting/wiring  mounting position  Vertical  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 attential of the conductor for supply type of connectable 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 Box lug tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for supply AL or CU type of electrical connection for load-side outgoing feeder Itype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material 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 connectable conductor or ses-sections of magnet coil Screw-type terminals tightening torque [lbf-in] at magnet coil Ts "C  material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor oross-sections of conductor oross-sections of conductor oross-sections at		600 V
design of the housing dustproof, waterproof & weatherproof  Mounting/wiring  mounting position Vertical  fastening method Surface mounting and installation  type of electrical connection for supply voltage line-side Box lug  tightening torque [Ibf-in] for supply  twpe of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply  type of connectable conductor for supply maximum permissible  temperature of the conductor for supply  AL or CU  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for supply  AL or CU  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  To *C  To C  To C		
degree of protection NEMA rating of the enclosure design of the housing  Mounting/viring  mounting position fastening method type of electrical connection for supply voltage line-side lightening 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 tightening torque [lbf-in] for load-side outgoing feeder lightening torque [lbf-in] for load-side outgoing feeder lace in the conductor cross-sections for AWG cables for load-side outgoing feeder lace in the conductor cross-sections for AWG cables for load-side outgoing feeder lace in the conductor cross-sections for AWG cables for load-side outgoing feeder lace in the conductor of load-side outgoing feeder lace in the load lace in the lace in		300 V
design of the housing dustproof, waterproof & weatherproof  Mounting/wiring  mounting position Vertical  fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug  tightening torque [ibf-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)  material 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 [ibf-in] for load-side outgoing feeder 120 120 lbf-in type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded 1x (14 2/0 AWG)  material of the conductor for load-side outgoing feeder 120 120 lbf-in type of connectable 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 12 lbf-in type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible on multi-stranded  temperature of the conductor at magnet coil maximum permissible on multi-stranded  temperature of the conductor at magnet coil maximum permissible on multi-stranded  temperature of the conductor at magnet coil screw-type terminals tightening torque [ibf-in] at conductor for auxiliary contacts auxiliary contacts auxiliary contac		300 V
mounting position  fasterning method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor for supply maximum permissible  type of electrical connection for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of connectable conductor for supply  type of electrical connection for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of end outgoing feeder single or multi-stranded  temperature of the conductor for supply  AL or CU  type of electrical connection for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of electrical connection of magnet coil  for electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value     Enclosure	
mounting position  Vertical  Surface mounting and installation  type of electrical connection for supply voltage line-side  Box lug  tightening torque [lbf-in] for supply  Pype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  Type of electrical connection for load-side outgoing feeder  Type of electrical connection for load-side outgoing feeder  Type of connectable conductor rorse-sections for AWG cables  for load-side outgoing feeder single or multi-stranded  Type of electrical connection for load-side outgoing feeder  Type of electrical connection for load-side outgoing feeder  Type of connectable conductor for load-side outgoing feeder  Type of electrical connection of magnet coil  Type of electrical connection of magnet coil  Type of electrical connection of magnet coil  Type of connectable conductor for load-side outgoing feeder  Maximum permissible  To C  Screw-type terminals  Type of connectable conductor of load-side outgoing feeder  AL or CU  Type of electrical connection of magnet coil  Type of connectable conductor of load-side outgoing feeder  AL or CU  Type of electrical connection of magnet coil  Type of connectable conductor at magnet coil  Type of connectable conductor at magnet coil maximum  Type of connectable conductor at magnet coil maximum  Type of connectable conductor at magnet coil maximum  Type of connectable conductor at magnet coil  Type of electrical connection at contactor for auxiliary contacts  Type of electrical connection at contactor for auxiliary contacts  Type of connectable conductor cross-sections at contactor for auxiliary contacts  Type of connectable conductor cross-sections at contactor for auxiliary contacts  Type of connectable conductor cross-sections at contactor for auxiliary contacts  Type of connectable conductor cross-sections at contactor for auxiliary contacts single or multi-stranded	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure	NEMA 4 enclosure
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  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  temperature of the conductor for load-side outgoing feeder maximum permissible  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil columnation of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil columnation of the conductor at magne	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing	NEMA 4 enclosure
type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 120 120 lbf-in 1x (14 2/0 AWG)  AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder traperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil or type of electrical connectable conductor at magnet coil or a conductor at magnet coil or type of electrical connectable conductor at magnet coil or type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Mounting/wiring	NEMA 4 enclosure dustproof, waterproof & weatherproof
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  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  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature 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-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  materia	with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Mounting/wiring     mounting position	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical
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  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 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 5 12 lbf-in  type of connectable conductor for load-side outgoing feeder 75 °C  screw-type terminals  tightening torque [lbf-in] at magnet coil 5 12 lbf-in  type of connectable conductor at magnet coil maximum permissible 75 °C  cu  type of electrical connection of magnet coil maximum permissible 75 °C  cu  type of electrical connection at contactor for auxiliary contacts 10 15 lbf-in  type of connectable conductor at magnet coil 10 15 lbf-in  type of connectable conductor 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	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Mounting/wiring mounting position fastening method	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation
temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil screw-type terminals tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil cu type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  75 °C  CU type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil type of connectable conductor or oss-sections of magnet coil full for a cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of electrical connection at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  AL or CU  Screw-type terminals  2x (16 12 AWG)  CU  type of electrical connection at contactor for auxiliary contacts  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  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	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf·in
type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil screw-type terminals tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor at magnet coil  type of connectable conductor at magnet coil type of connectable conductor at magnet coil  type of connectable conductor of auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  Example 120 12 of lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  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	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)
tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  120 120 lbf-in  1x (14 2/0 AWG)  To CU  Screw-type terminals  1x (14 2/0 AWG)  2x (16 12 AWG)  2x (16 12 AWG)  CU  Type of connectable conductor at magnet coil  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  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	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  1x (14 2/0 AWG)  75 °C  Screw-type terminals  2x (16 12 AWG)  CU  CU  type of electrical connection at contactor for auxiliary contacts  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG)  75 °C AL or CU
temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  75 °C  CU  type of connectable conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  75 °C  CU  type of connectable conductor at magnet coil  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug
type of electrical connection of magnet coil  type of electrical connection of magnet coil  tightening torque [lbf·in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf·in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  AL or CU  Screw-type terminals  2x (16 12 AWG)  75 °C  CU  Screw-type terminals  10 15 lbf·in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in
type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)
tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  5 12 lbf-in  2x (16 12 AWG)  CU  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  2x (16 12 AWG)  CU  CU  type of electrical connection at contactor for auxiliary contacts  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  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  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU
AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  75 °C  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  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 material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Screw-type terminals
material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Screw-type terminals 5 12 lbf-in
material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf·in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  CU  Screw-type terminals  10 15 lbf·in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Sorew-type terminals 5 12 lbf-in 2x (16 12 AWG)
type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  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  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Sorew-type terminals 5 12 lbf-in 2x (16 12 AWG)
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  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C  AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)
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)	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical  Surface mounting and installation  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  75 °C  CU
	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil type of connectable conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)  75 °C  CU Screw-type terminals
temperature of the conductor at contactor for auxiliary contacts  75 °C  maximum permissible	with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts	NEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG)  75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)  75 °C  CU Screw-type terminals 10 15 lbf-in

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)
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	10 kA
• at 600 V	10 kA
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=US2:83IUH95EJ

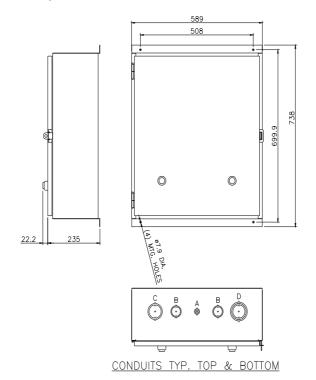
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:83IUH95EJ

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=US2:83IUH95EJ&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:83IUH95EJ&lang=en</a>

Certificates/approvals

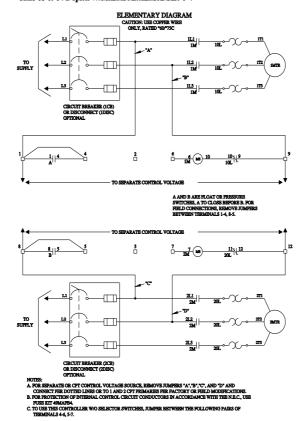
https://support.industry.siemens.com/cs/US/en/ps/US2:83IUH95EJ/certificate



LETTER	CONDUIT SIZE	
Α	ø12.7 & ø19 DIA. CONDUIT	
В	ø31.8 & ø38.1 DIA. CONDUIT	
С	ø50.8 & ø63.5 DIA. CONDUIT	
D	ø50.8, ø63.5 & ø76.2 DIA. CONDUIT	

## SCHEMATIC DIAGRAM

## Class 83 & 84 Duplex W/Manual Alternation Size 0-4



last modified: 1/25/2022 🖸