## **SIEMENS**

Data sheet US2:84IUH95EDF



Duplex starter w/o alternator Size 3.5 Three phase full voltage Solid-state overload relay OLR amp range 50-200A 110VAC 50Hz / 120VAC 60Hz Coil Combination type Two 200A disconnect switches Encl NEMA type 4 painted steel Water/dust tight weather proof

product brand name	Class 84
design of the product	Duplex controller with two non-fusible disconnect switches without alternator
special product feature	ESP200 overload relay; Half-size controller
General technical data	
weight [lb]	106 lb
Height x Width x Depth [in]	56 × 29 × 10 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	
<ul> <li>during storage</li> </ul>	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
<ul><li>at 200/208 V rated value</li></ul>	30 hp
<ul><li>at 220/230 V rated value</li></ul>	40 hp
<ul><li>at 460/480 V rated value</li></ul>	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>	110 110 V
at AC at 60 Hz rated value	120 120 V
holding power at AC minimum	14 W

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controlling range factor control supply voltage rated value of magnet coil related to the input voltage of magnet coil related to the voltage of the	apparent holding power of magnet coil at AC	310 VA
precental drop-out viotage of magnet coil related to the input viotage percental drop-out viotage of magnet coil related to the input viotage of precental drop-out viotage of magnet coil related to the input viotage of viotage decided to the input viotage of viotage of viotage decided to the input viotage of viotage decided viotage of viotage decided viotage of viotage of viotage decided viotage of viotage decided viotage of viotage of viotage decided viotage of viotag		
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Overload relay product function  Overload protection Overs Oversold protection Overs Overs Oversold protection Overs Overs Oversold protection Overs Overs Overs Overs Overs Overs Overs Oversold protection Overs	ON-delay time	26 41 ms
product function  • overload protection  • phase failure detection  • phase failure detection  • phase failure detection  • pass failure detection  • prand failure detection  • cesternal reset  • cesternal reset  • external reset  • cesternal reset  • cesternal reset  • reset function  • dependent overload release  tripping time at phase-loss maximum  releave repeat accuracy  • anumber of NC contacts of auxiliary contacts of overload relay  • anumber of NC contacts of auxiliary contacts of overload relay  • at AC at 800 V  • at DC at 255 V  • at DC at 255 V  • at DC at 255 V  contact rating of auxiliary contacts of everload relay  • with single-phase operation at AC rated value  • with multi-phase operation of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection nembra of the supply voltage line-side type of electrical connection for supply voltage line-side type of electrical connection for supply woltage line-side tughtening foruge (lift in) for supply  protection of the conductor for supply  protection of the conductor for load-side outgoing feeder  tughtening torque [lift in] for supply  protection of the conductor for load-side outgoing feeder  tughtening torque [lift in] for supply  protection of the conductor for load-side outgoing feeder  tughtening torque [lift in] a tranger coil  tughtening torque [lift in] a tranger coil  yep of electrical connection for for ad-side outgoing feeder  maximum pe	OFF-delay time	14 19 ms
overload protection     ophase failure detection     opround fault detection     ves     orground fault detection     ves     vese settlement on ves     elect function     ves     vese settlement on ves     vese settlement on vese     vese settlement on vese     vese settlement on vese settlement on vese     vese settlement on vese settlement of vese on vese settlement of vese on vese settlement on vese	Overload relay	
phase failure detection     asymmetry detection     cround fault detection     ves     cround fault detection     ves     external reset     ves     reset function     trip class     cadjustables current response value current of the current-dependent overtoad release     tripping time at phase-loss maximum     relative repeat accuracy     number of NC contacts of auxiliary contacts of overtoad relay     number of NC contacts of auxiliary contacts of overtoad relay     number of NC contacts of auxiliary contacts of overtoad relay     operational current of auxiliary contacts of overtoad relay     at AC at 800 V     at DC at 250 V     at DC at 250 V     at DC at 250 V     with multi-phase operation at AC rated value     operating class of the fuse link     response value of switch disconnector     design of fuse holder     operating class of the fuse link     non-fusible     poperating of the conductor for supply voltage line-side     poperating class of the fuse link     non-fusible     poperating class of the fuse link     non-fusible     poperating class of the fuse link	product function	
asymmetry detection ground fault detection ground fault detection elets function external reset  reset function  Amanual, automatic and remote trip class  CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overload release  tripping time at phase-loss maximum  all fine pendent overload release  tripping time at phase-loss maximum  and the pendent overload release  tripping time at phase-loss maximum  and the pendent overload release  tripping time at phase-loss maximum  and Contacts of auxiliary contacts of overload relay  and AC at 800 V  at DC at 250 V  contact rating of auxiliary contacts of overload relay  at AC at 800 V  at DC at 250 V  contact rating of auxiliary contacts of overload relay  with single-phase operation at AC rated value  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  operating class of the fuse link  response value of switch disconnector  design of fuse holder  operating class of the fuse link  construing class of the fuse link  construing of the conductor for supply voltage line-side  degree of protection NEMA rating of the enclosure  design of the rousing  Mounting position  Vertical  Surface mounting and installation  type of electrical connection for supply voltage line-side  tightening torque [fif-in] for supply  type of connectable conductor ross-sections at line-side for AMM cables sing or multi-stranded  temperature of the conductor for supply washmum permissible  for cond-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  for cond-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  for cond-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  for load-side outgoing feeder single or multi-stranded  temperature of	<ul> <li>overload protection</li> </ul>	Yes
• ground fault detection • test function • external reset • yes  reset function  trip class GLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current-dependent overload release • tripping lime at phase-loss maximum  relative repeat accuracy number of NC contacts of auxiliary contacts of overload relay • at PAC at 800 V • at CA 25 00 V • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with single-phase operation at AC rated value • with number of NC on the set of the fuse link  poperating class of the fuse link  poperating position  design of the housing  AVAILAGE AC SEA ON AC (ables on the design of the housing  mounting position  fastening method  fastening method  fastening method  fastening torque [IbF in] for supply  AVAIC cables single or multi-stranded  temperature of the conductor for supply maximum permissible  fastening torque [IbF in] for load-side outgoing feeder  flaghtling torque [IbF in] for load-side outgoing feeder  maximum permissible  for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  for load-side outgoing feeder single or multi-s	<ul> <li>phase failure detection</li> </ul>	Yes
* external reset     * ex	<ul> <li>asymmetry detection</li> </ul>	Yes
reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-dependent overfoad release tripping time at phase-loss maximum 3 s relative repeat accuracy 1 1% number of NC contacts of auxiliary contacts of overfoad relay 1 number of NC contacts of auxiliary contacts of overfoad relay 1 number of NC contacts of auxiliary contacts of overfoad relay 1 number of NC contacts of auxiliary contacts of overfoad relay 2 at NC at 500 V at DC at 250 V 1 A 5 A at DC at 250 V 5 A at DC at 250 V 5 A 5 A at DC at 250 V 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5	<ul> <li>ground fault detection</li> </ul>	Yes
reset function  trip class  CLASS \$ 7 10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overload release  tripping time at phase-loss maximum  relative repeat accuracy  number of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  at AC at 500 V  at DC at 250 V  contact rating of auxiliary contacts of overload relay  with a CD cat 250 V  contact rating of auxiliary contacts of overload relay according to UL  with single-phase operation at AC rated value  with multi-phase operation of the sulpin  response value of switch disconnector  design of the fuse link  porture of the fuse link  porture of the fuse link  porture of the sulpin  mounting position  Surface mounting and installation  type of electrical connection for supply voltage line-side  type of electrical connection for supply waimum permissible  material of the conductor for supply maximum permissible  for load-side outgoing feeder  maximum permissible  for to connectable conductor for load-side outgoing feeder  maximum permissible  pype of electrical connection of magnet coil for load-si	• test function	Yes
trip class adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum  3 s tripping time at phase-loss maximum  3 s relative repeat accuracy number of NC contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay • at NC at 800 V • at DC at 250 V • with multi-phase operation at AC rated value • with multi-phase operation at AC	external reset	Yes
adjustable current response value current of the current- dependent overload release  Itripping lime at phase-loss maximum  1 %  relative repeat accuracy  number of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  at AC at 600 V  at CC at 250 V  1 A  contact rating of auxiliary contacts of overload relay  at AC at 600 V  at DC at 250 V  1 A  contact rating of auxiliary contacts of overload relay according to  UL  insulation voltage (Ui)  with single-phase operation at AC rated value  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  overline insulation voltage (Ui)  evith according to the fuse link  response value of switch disconnector  response value of switch disconnector  design of fuse holder  operating class of the fuse link  non-fusible  Procourse  degree of protection NEMA rating of the enclosure  1	reset function	Manual, automatic and remote
dependent overload release  tripping time at phase-loss maximum  relative repeat accuracy  number of NC contacts of auxiliary contacts of overload relay  number of NC contacts 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 multi-phase operation of the conductor of the late in the conductor of the conduct	trip class	CLASS 5 / 10 / 20 (factory set) / 30
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operational current of auxiliary contacts of overload relay  • at AC at 800 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (UI)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with 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 of AC rated value  • with multi-phase operation of AC rated value  • with multi-phase operation of AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • overland of the shoulder  operating class of the fuse link  classing of the shoulder  operating class of the fuse link  classer of protection NEMA rating of the enclosure  design of the housing  Mounting/wiring  mounting position  fastering method  type of electrical connection for supply voltage line-side  by Surface mounting and installation  type of oelectrical 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  type of connectable conductor for supply maximum series and so king  tightening torque [libf-in] for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  type 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  pype of electrical connection of magnet coil  5 12 libf-in  ype of electrical connection of magnet coil for type of electrical connection of magnet coil for ty	number of NC contacts of auxiliary contacts of overload relay	1
at AC at 600 V at DC at 250 V at DC at 250 V at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (UI)  with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value  overline multi-phase operation at AC rated value  2004 / 600 V  design of fuse holder response value of switch disconnector design of fuse holder operating class of the fuse link  Inon-fusible operating class of the fuse link  Inon-fusible  Inolosure  degree of protection NEMA rating of the enclosure design of the housing mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side gightening torque [Ibf-in] for supply ype of connectable conductor cross-sections at line-side for AVVG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible for load-side outgoing feeder gightening torque [Ibf-in] 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 maximum permissible screw-type terminals fightening torque [Ibf-in] at magnet coil fightening torque [Ibf-in] at magnet coil fightening torque [Ibf-in] at magnet coil for the conductor for load-side o	number of NO contacts of auxiliary contacts of overload relay	1
at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  with single-phase operation at AC rated value  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  300 V  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Inclusive  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  Mounting/wring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  temperature of the conductor for supply maximum permissible  material of the conductor for supply maximum permissible  material of the conductor rores-sections for AWG cables  for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables  for load-side outgoing feeder  type of connectable conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  type of connectable conductor rores-sections for AWG cables  for load-side outgoing feeder  for load-side outgoing feeder  gibthening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor rores-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  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  screw-type terminals  tightening torque [lbf-in] at magnet coil  5 12 lbf-in  type of connectable conductor cross-sections of magnet coil  5 12 lbf-in  type of connectable conductor for ses-sections of magnet coil  5 12 lbf-in	operational current of auxiliary contacts of overload relay	
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  300 V  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  non-fusible  operating class of the fuse link  non-fusible  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  design of the housing  mounting/wiring  mounting position  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  Bightening torque [Ibf-in] for supply  275 275 Ibf-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  material of the conductor for supply maximum permissible  for load-side outgoing feeder  tightening torque [Ibf-in] for load-side outgoing feeder  globel for load-side outgoing feeder  tightening torque [Ibf-in] for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of connectable conductor for supply  AL or CU  type of connectable conductor for supply  AL or CU  type of connectable conductor for supply  AL or CU  type of connectable conductor for load-side outgoing feeder  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  so connectable conductor for load-side outgoing fee	• at AC at 600 V	5 A
insulation voltage (Ui)  vith single-phase operation at AC rated value  vith multi-phase operation at AC rated value  300 V  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  non-fusible  poperating class of the fuse link  non-fusible  mounting position  fastening method  type of electrical connection for supply voltage line-side by et emperature of the conductor for supply maximum permissible  response value [lbf-in] for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  fightening torque [lbf-in] for load-side outgoing feeder  fightening torque	• at DC at 250 V	1 A
with multi-phase operation at AC rated value with multi-phase operation at AC rated value 300 V  Disconnect Switch  response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible  perating class of the fuse link non-fusible  fectors  degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring  mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 275 275 lbf-in type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible respective of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type 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 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 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 conducto		5A@600VAC (B600), 1A@250VDC (R300)
with multi-phase operation at AC rated value     Disconnect Switch  response value of switch disconnector     design of fuse holder     operating class of the fuse link     non-fusible     operating class of the fuse link     non-fusible  Enclosure  degree of protection NEMA rating of the enclosure     design of the housing  Mounting/wiring  mounting position     Vertical fastening method     Vyertical connection for supply voltage line-side     tightening torque [lbf-in] for supply     Vertical supply     Vertical connectable conductor cross-sections at line-side for     AWC cables single or multi-stranded     temperature of the conductor for supply maximum permissible     material of the conductor for supply     Vertical supply     AL or CU     Vertical supply     Vert	insulation voltage (Ui)	
Disconnect Switch  response value of switch disconnector  design of fuse holder operating class of the fuse link  non-fusible  non-fusible  non-fusible  non-fusible  non-fusible  non-fusible  non-fusible  NEMA Type 4  design of the housing dustproof, waterproof & weatherproof  Mounting/wiring  mounting position fastening method Surface mounting and installation 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 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder 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 maximum permissible material of the conductor for load-side outgoing feeder  AL or CU type of electrical connection of magnet coil goe the conductor for load-side outgoing feeder  AL or CU type of electrical connection of magnet coil goe the conductor cross-sections of magnet coil for load-side outgoing feeder outgoing feeder AL or CU type of electrical connection of magnet coil for load-side outgoing feeder outgoing feeder AL or CU type of electrical connection of magnet coil for load-side outgoing feeder outgoing feeder AL or CU	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
response value of switch disconnector  design of fuse holder operating class of the fuse link  non-fusible  relosure  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 Author of the conductor for supply maximum permissible material of the conductor 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 maximum permissible material of the conductor for load-side outgoing feeder material of the conductor for l	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
design of fuse holder operating class of the fuse link  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 temperature of the 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 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 for load-side outgoing feeder material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder material of the cond	Disconnect Switch	
perating class of the fuse link non-fusible  Enclosure  degree of protection NEMA rating of the enclosure 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 [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  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  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  type of connectable 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 electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)	response value of switch disconnector	200A / 600V
degree of protection NEMA rating of the enclosure  design of the housing  mounting position  fastening method  type of electrical connection for supply voltage line-side  temperature of the conductor for supply maximum permissible  material of the conductor cross-sections for AWG cables for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of t	design of fuse holder	non-fusible
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  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  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  temperature of the conductor for supply  type of connectable 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  type of connectable 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 electrical connection of magnet coil  type of connectable conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  5 12 lbf-in  type of connectable conductor cross-sections of magnet coil for  2x (16 12 AWG)	operating class of the fuse link	non-fusible
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  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  temperature 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  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 electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for  2x (16 12 AWG)	Enclosure	
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  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  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  5 12 lbf-in  type of connectable conductor cross-sections of magnet coil for  2x (16 12 AWG)	degree of protection NEMA rating of the enclosure	NEMA Type 4
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  type of connectable conductor 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  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 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		dustproof, waterproof & weatherproof
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  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  type of connectable conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  temperature 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  2x (16 12 AWG)	Mounting/wiring	
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  type of electrical connection 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  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	mounting position	Vertical
tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  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  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  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  type of connectable conductor cross-sections of magnet coil for	fastening method	Surface mounting and installation
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible 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 for AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder for load-side outgoing feeder for CU type of electrical connection of magnet coil for load-side outgoing feeder for CU type of connectable conductor cross-sections of magnet coil for load-side outgoing feeder for CU type of connectable conductor cross-sections of magnet coil for for load-side outgoing feeder for CU	type of electrical connection for supply voltage line-side	Box lug
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 maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  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  2x (16 12 AWG)	tightening torque [lbf-in] for supply	275 275 lbf·in
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  type of connectable conductor cross-sections of magnet coil for  2x (16 12 AWG)	**	1x (6 AWG 300 Kcmil)
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  type of connectable conductor cross-sections of magnet coil for	temperature of the conductor for supply maximum permissible	75 °C
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  2x (16 12 AWG)	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-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	type of electrical connection for load-side outgoing feeder	Box lug
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  2x (16 12 AWG)	tightening torque [lbf-in] 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  2x (16 12 AWG)	**	1x (14 2/0 AWG)
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  2x (16 12 AWG)		75 °C
tightening torque [lbf·in] at magnet coil  type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)	material of the conductor for load-side outgoing feeder	AL or CU
type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)	type of electrical connection of magnet coil	Screw-type terminals
	tightening torque [lbf·in] at magnet coil	5 12 lbf·in
		2x (16 12 AWG)
temperature of the conductor at magnet coil maximum 75 °C permissible	temperature of the conductor at magnet coil maximum	75 °C
material of the conductor at magnet coil CU	·	CU
type of electrical connection at contactor for auxiliary contacts  Screw-type terminals	<u> </u>	Screw-type terminals

tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
material of the conductor at contactor for auxiliary contacts	CU
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded	2x (20 14 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay for auxiliary contacts	CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

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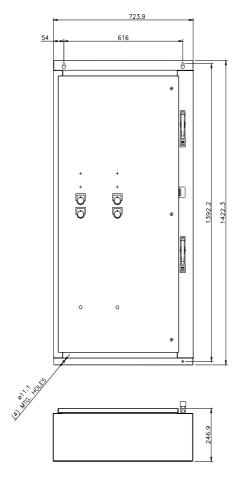
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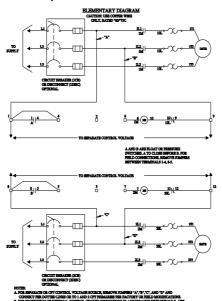
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Class 83 & 84 Duplex W/Manual Alternation Size 0-4



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