## **SIEMENS**

Data sheet US2:14FUF32AJ



Non-reversing motor starter Size 2 Three phase full voltage Solid-state overload relay OLRelay amp range 13-52a 24VAC 50-60HZ coil Combination type No enclosure

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	5 lb
Height x Width x Depth [in]	8.13 × 5.75 × 4 in
touch protection against electrical shock	Not finger-safe
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	Mexico
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
<ul><li>at 200/208 V rated value</li></ul>	10 hp
• at 220/230 V rated value	15 hp
• at 460/480 V rated value	25 hp
• at 575/600 V rated value	25 hp
Contactor	
size of contactor	NEMA controller size 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	45 A
mechanical service life (operating cycles) of the main contacts typical	1000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	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	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	24 V
at AC at 60 Hz rated value	24 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 VA

apparent holding power of magnet coil at AC parents provided protecting angle factor control supply voltage rated value of magnet coil related to the input voltage of magnet voltage voltage of magnet voltage voltage of magnet voltage voltage of magnet		OF VA
precental circy-out violage of magnet coil related to the input voltage percental circy-out violage of magnet coil related to the input voltage of the product function overload protection overload related to easymmetry detection overload related to external reset overload related overload relate	apparent holding power of magnet coil at AC	25 VA
youtside the product function OFF-delay time Overload protection • overload protection • overload protection • phase fallarize detection • caymmetry detection • reset function • caymmetry detection • reset function • overload reset • No • reset function  Itip class  adjustable current response value current of the current dependent overload release  tripping time at phase-loss maximum  3 s  class 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current dependent overload release  tripping time at phase-loss maximum  3 s  relative repeat accouracy 1 %  product feature protective coating on printed-circuit board number of No contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay 1 at AC at 800 V 1 AC at Cat 800 V 1 AC and Cat 800 V 1 AC contacts and auxiliary contacts of overload relay 1 at AC at 800 V 1 AC contacts and auxiliary contacts of overload relay according to UL  insulation voltage (U)  with single-phase operation at AC rated value 300 V  with multi-phase operation at AC rated value 300 V  insulation voltage (U)  with single-phase operation at AC rated value 300 V  insulation voltage (U)  sufficient of the current of supply voltage line-side degree of protection NEMA rating of the enciosure degree of protection NEMA rating of the enciosure degree of protection or supply voltage line-side 300 V  Vertical 300 V  Surface mounting and installation  Verical 300 V  Vertical 300	magnet coil	
Overload relay product function		50 %
product function  • overload protection • phase failure detection • phase failure detection • phase failure detection • asymmetry detection • ground fault detection • external reset • external reset • overload protection • external reset • overload protection • external reset • overload protection • external reset • overload relay  reset function • Manual, automatic and remote  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  product feature protective coaling on printed-circuit board verset function • overload relay • overlo	ON-delay time	19 29 ms
product function  • overload protection • overload protection • phase failure detection • phase failure detection • phase failure detection • ground fault detection • rest function • caternal reset • reset function • overload reset • No • external reset • No • external reset • No • caternal reset • No  This picture • CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current - dependent overload release  tripping time at phase-loss maximum  3 s • relative repeat accuracy  product feature protective coating on printed-circuit board  rumber of NC contacts of auxiliary contacts of overload relay  1 mumber of NC contacts 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 • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay • with implie-phase operation at AC rated value • with multi-phase operation at	OFF-delay time	10 24 ms
overload protection     phase failure detection     phase failure detection     asymmetry detection     res     ground fault detection     ves     ground fault detection     ves     reset function     veternal reset     No     external reset     No     adjustable current response value current of the current-dependent overload release     tripping time at phase-loss maximum     3 s     relative repeat accuracy     product feature protective coating on printed-circuit board     number of NC contacts of auxiliary contacts of overload relay     number of NC contacts of auxiliary contacts of overload relay     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 insingle-phase operation at AC rated value     with insingle-phase operation at AC rated value     with insingle-phase operation at AC rated value     with multi-phase operation at AC rated value     degree of protection NEMA rating of the enclosure     degree of protection NEMA rating of the enclosure     degree of protection NEMA rating of the enclosure     design of the housing     mounting position     tastening method     type of electrical connection for supply voltage line-side     temperature of the conductor for supply maximum permissible     temperature of the conductor for supply maximum permissible     for load-side outgoing feeder     maximum permissible     material of the conductor for load-side outgoing feeder     maximum permissible	Overload relay	
phase failure detection asymmetry detection asymmetry detection ground fault detection  esternal reset No external reset No external reset No manual, automatic and remote  tip class Adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum  3 s relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 at AC at 600 V 1 at DC at 250 V 2 becomes operation at AC rated value 2 with multi-phase operation at AC rated value 3 with multi-phase operation at AC rated value 3 with multi-phase operation at AC rated value 3 certain protection NEMA rating of the enclosure 3 degree of protection NEMA rating of the enclosure 3 degree of protection nesting method 3 surface mounting and installation 4 surface mounting and installation 5 surface mounting and installat	product function	
asymmetry detection     ground fault detection     extest function     external reset     No     Annual, automatic and remote     trip class     adjustable current response value current of the current-dependent overload release     attripping time at phase-loss maximum     3 s     trelative 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     extensive repeat accuracy     1 s     number of NC contacts of auxiliary contacts of overload relay     extensive repeat accuracy     extensive repeat accuracy     1 s     number of NC contacts of auxiliary contacts of overload relay     extensive repeat accuracy     1 s     extensive repeat accuracy     1 s     verification of auxiliary contacts of overload relay     1 s     at AC at 600 V     at DC at 250 V     1 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 at AC rated value     with multi-phase operation at AC rated value     degree of protection NEMA rating of the enclosure     degree of protection NEMA rating of the enclosure     design of the housing     NA     Nounting position     fastering method     yeps of electrical connection for supply voltage line-side     temperature of the conductor for supply maximum permissible     for load-side outgoing feeder     maximum p	<ul> <li>overload protection</li> </ul>	Yes
ground fault detection test function test function trip class CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum relative repeat accuracy 13 52 A  ground teature protective coating on printed-circuit board 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 %	phase failure detection	Yes
* external reset     * external reset     * No     * Amount of the course of the	<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 overload release tripping time at phase-loss maximum 3 s relative repeal accuracy 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ product feature protective coating on printed-circuit board 1 ½ products of NC contacts of auxiliary contacts of overload relay 1 1 products of NC contacts of auxiliary contacts of overload relay 1 1 products of auxiliary contacts of overload relay according to 1 1 A 2 and 10 C at 250 V 1	<ul> <li>ground fault detection</li> </ul>	Yes
resel function  trip class  CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overload release  tripping time at phase-loss maximum  3 s  relative repeat accuracy  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  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay  • with multi-phase operation at AC rated value  • with multi-phase operation of the enclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  design of the housing  NA  Mounting inviring  mounting position  fastening method  type of electrical connection for supply voltage line-side  thereperature of the 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 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 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	• test function	Yes
trip class  dalustable current response value current of the current-dependent overload release  tripping time at phase-loss maximum  3 s  relative repeat accuracy  product feature protective coating on printed-circuit board  yes  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  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  son V  for the ousing  Mounting viring  mounting position  fastening method  type of electrical connection for supply voltage line-side  type of connectable conductor cross-sections at line-side for AVC cables single or multi-stranded  temperature of the conductor for supply maximum permissible  for lad side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  fastering remissible  material of the conductor for load-side outgoing feeder  fastering remissible  material of the conductor for load-side outgoing feeder	external reset	No
adjustable current response value current of the current- dependent overload release  tripping time at phase-loss maximum  relative repeat accuracy  product feature protective coating on printed-circuit board 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 operational current of auxiliary contacts of overload relay 1 ot at Ca 1600 V 1 1 at DC at 250 V 1 contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) 1 with single-phase operation at AC rated value 1 with multi-phase operation at AC rated value 2 with multi-phase operation at AC rated value 300 V  Inclosuro  degree of protection NEMA rating of the enclosure 2 design of the housing 3 Mounting/wring  mounting position 4 fastening method 4 type of electrical connection for supply voltage line-side for AWG cables single or multi-stranded 4 temperature of the conductor cross-sections at line-side for AWG cables single or multi-stranded 4 temperature of the conductor for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 1ype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder 1ype of connectable conductor for load-side outgoing feeder 1x(14 - 2 AWG) 1x(14 - 2	reset function	Manual, automatic and remote
dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay  • at AC at 600 V • at DC at 250 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value 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 for supply maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder material of the conductor for load-side outgoing feeder Mater	trip class	CLASS 5 / 10 / 20 (factory set) / 30
relative repeat accuracy 1 % 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 contact rating of auxiliary contacts of overload relay according to U. 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  **Enclosure**  **Gegree of protection NEMA rating of the enclosure design of the housing mounting position **Vertical** fastening method  type of electrical connection for supply voltage line-side tightening torque [libf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder material of the conductor for		13 52 A
product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Mounting/wiring  mounting position { Vertical fastening method } Vertical fastening method  type of electrical connection for supply voltage line-side of the protectible conductor cross-sections for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  temperature of the conductor for supply maximum permissible  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  type of connectable conductor ross-sections for AWG cables for load-side outgoing feeder  type of connectable conductor ross-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  maximum permissible  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  screw-type terminals	tripping time at phase-loss maximum	3 s
number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • Which multi-phase operation at AC rated value • Werth multi-phase operation of the enclosure  degree of protection NEMA rating of the enclosure  Open device (no enclosure)  degree of protection on the Marating 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 Box lug tightening torque [lbf-in] for supply 45 45 lbf-in 1x(14 - 2 AWG) AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible professible conductor cross-sections for AWG cables for load-side outgoing feeder superature of the conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for supple 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 for CU type of electrical connection of magnet coil screw-type terminals	relative repeat accuracy	1 %
number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V 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	product feature protective coating on printed-circuit board	Yes
operational current of auxiliary contacts of overload relay	number of NC contacts of auxiliary contacts of overload relay	1
at AC at 600 V at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  with single-phase operation at AC rated value with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  owith multi-phase operation at AC rated value  Tenclosure  degree of protection NEMA rating of the enclosure  degree of protection NEMA rating of the enclosure  Open device (no enclosure)  design of the housing  NA  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 rightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder maximum permissible onductor for load-side outgoing feeder type of electrical connection of magnet coil  screw-type terminals	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  operation of the enclosure degree of protection NEMA rating of the enclosure Open device (no enclosure) design of the housing  Mounting/wiring mounting position type of electrical connection for supply voltage line-side tightening torque [libr-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder tightening torque [libr-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 supely or multi-stranded temperature of the conductor cross-sections for AWG cables for load-side outgoing feeder maximum permissible outgoing feeder AL or CU type of electrical connection of magnet coil screw-type terminals	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  600 V  • with multi-phase operation at AC rated value  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 [Ibf-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 connectable conductor for supply  type of connectable conductor for supply  AL or CU  type of connectable conductor cross-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 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  AL or CU  type of electrical connection of magnet coil	• at AC at 600 V	5 A
Insulation voltage (UI)  • with single-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/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side tightening torque [Ibf-in] for supply  type of connectable conductor for supply maximum permissible material of the conductor for supply  type of connectable connection for supply  type of connection for supply  AL or CU  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  type of connectable conductor for supply  AL or CU  type of connectable conductor for supply  tightening torque [Ibf-in] for load-side outgoing feeder  type of connectable conductor for supply  AL or CU  type of connectable conductor for supply  temperature of the conductor for supply  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  AL or CU  type of electrical connection of magnet coil  screw-type terminals	• at DC at 250 V	1 A
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     300 V  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     type of electrical connection for load-side outgoing feeder     type of connectable conductor cross-sections at line-side for AWG cables connection for supply     type of electrical connection for supply     type of electrical connection 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     type of connectable conductor cross-sections for AWG cables     for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     temperature of the conductor for load-side outgoing feeder     temperature of the conductor for load-side outgoing feeder     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		5A@600VAC (B600), 1A@250VDC (R300)
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     300 V  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     type of electrical connection for load-side outgoing feeder     type of connectable conductor cross-sections at line-side for AWG cables conductor for supply     type of electrical connection 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 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 multi-stranded     temperature of the conductor for load-side outgoing feeder     material of the conductor for load-side outgoing feeder     screw-type terminals		
ewith multi-phase operation at AC rated value    Description	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
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  Moward cables single or multi-stranded temperature of the conductor for supply tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder material of the conductor for supply  Moward cables single or multi-stranded temperature of the conductor for supply  Moward cables of the conductor for supply  Moward cables outgoing feeder  Moward cables outgoing feeder Moward cables outgoing feeder Moward cables outgoing feeder single or multi-stranded  Moward cables outgoing feeder  Moward cables (no enclosure)  Moward cables (no		300 V
design of the housing       NA         Mounting/wiring       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       45 45 lbf-in         type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor 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       screw-type terminals		
design of the housing       NA         Mounting/wiring       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       45 45 lbf-in         type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor 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       screw-type terminals	degree of protection NEMA rating of the enclosure	Open device (no enclosure)
mounting position  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  Box lug  tightening torque [lbf·in] for supply  45 45 lbf·in  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  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  maximum permissible  material of the conductor 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  AL or CU  type of electrical connection of magnet coil		
fastening method  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  type of connectable conductor cross-sections at line-side for 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 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  Surface mounting and installation  Box lug  1x(14 - 2 AWG)  1x(14 - 2 AWG)  1x(14 - 2 AWG)  1x(14 - 2 AWG)  AL or CU  type of electrical connection of magnet coil	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 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  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 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  maximum permissible  maximum permissible  maximum permissible  maximum permissible  ma	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 supply  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables 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  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	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  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  1x(14 - 2 AWG)  1x(14 - 2 AWG)  1x(14 - 2 AWG)  AL or CU  type of electrical connection of magnet coil	type of electrical connection for supply voltage line-side	Box lug
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  screw-type terminals		45 45 lbf·in
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  75 °C  AL or CU  type of connectable conductor for load-side outgoing feeder  screw-type terminals	type of connectable conductor cross-sections at line-side for	1x(14 - 2 AWG)
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  AL or CU screw-type terminals	<u> </u>	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  45 45 lbf-in  1x(14 - 2 AWG)  75 °C  AL or CU  type of electrical connection of magnet coil	material of the conductor for supply	AL or CU
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  45 45 lbf-in  1x(14 - 2 AWG)  75 °C  AL or CU  type of electrical connection of magnet coil		Box lug
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  1x(14 - 2 AWG)  75 °C  AL or CU  screw-type terminals		
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  75 °C  AL or CU screw-type terminals	type of connectable conductor cross-sections for AWG cables	
material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  screw-type terminals	temperature of the conductor for load-side outgoing feeder	75 °C
type of electrical connection of magnet coil screw-type terminals		AL OIL
		AL OF CU
	material of the conductor for load-side outgoing feeder	
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 2 x (16 - 12 AWG)	material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil	screw-type terminals
temperature of the conductor at magnet coil maximum 75 °C	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	screw-type terminals 5 12 lbf-in
	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	screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG)
	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	screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C
	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	screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	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 type of electrical connection for auxiliary contacts	screw-type terminals  5 12 lbf-in  2 x (16 - 12 AWG)  75 °C  CU  screw-type terminals
temperature of the conductor at contactor for auxiliary contacts maximum permissible  75 °C	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 type of electrical connection for auxiliary contacts tightening torque [lbf·in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for	screw-type terminals  5 12 lbf-in  2 x (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	2 x (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
Object a line of a comment of the co	
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 fuse link for short-circuit protection of the main	10kA@600V (Class H or K); 100kA@600V (Class R or J)  Thermal magnetic circuit breaker
design of the fuse link for short-circuit protection of the main circuit required	
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip	
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)	Thermal magnetic circuit breaker
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)  • at 240 V	Thermal magnetic circuit breaker  14 kA
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)  • at 240 V • at 480 V	Thermal magnetic circuit breaker  14 kA 10 kA

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

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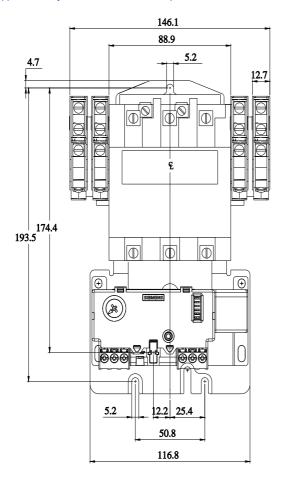
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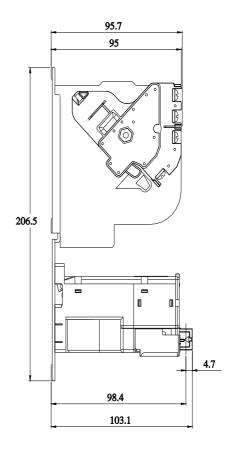
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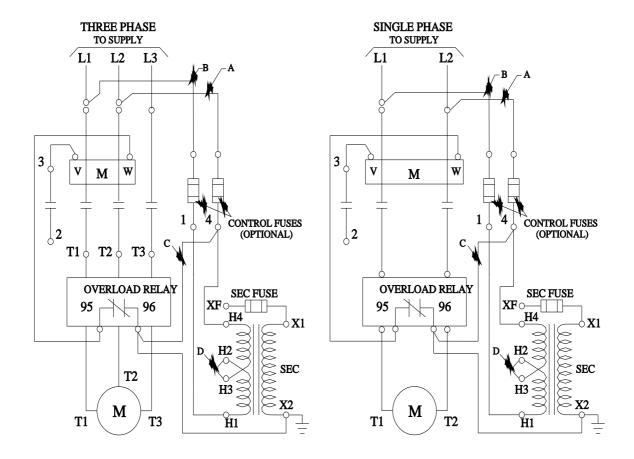
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