## **SIEMENS**

Data sheet US2:83CUD95EG



Duplex starter w/o alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 190-220/220-240V 50/60Hz coil, Non-combination type, Enc NEMA type 4 painted steel, Water/dust tight for outdoors

product brand name	Class 83
design of the product	Duplex controller without alternator
special product feature	ESP200 overload relay
General technical data	
weight [lb]	40 lb
Height x Width x Depth [in]	20 × 16 × 6 in

General technical data	
weight [lb]	40 lb
Height x Width x Depth [in]	20 × 16 × 6 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
<ul> <li>during operation</li> </ul>	-20 +40 °C

<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	

tor	
• at 200/208 V rated value	3 hp
• at 220/230 V rated value	3 hp
• at 460/480 V rated value	0 hp
at 575/600 V rated value	0 hn

<ul><li>at 575/600 V rated value</li></ul>	0 hp
Contactor	
size of contactor	NEMA controller size 0
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz	600 V

maximum	
operational current at AC at 600 V rated value	18 A
mechanical service life (switching cycles) of the main contacts typical	10000000

contacts typical	
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	

a th AC at 60 Hz retaded value at AC at 60 Hz retaded value 220 240 V  holding power at AC minimum apparent pick-up power of magnet coil at AC apparent picking power of magnet coil at AC parenting range factor control supply voltage rated value of magnet coil magnet coil percental drop-out voltage of magnet coil at AC Dischalty time 1024 ms Overload rately ON-delay time 1024 ms Overload rately Overload rately overload protection • overload protection • phase failure detection • phase failure detection • phase failure detection • casyminetry detection • casyminetry detection • casyminetry detection • ves • cuternal reset • cuternal reset  reset function adjustable current response value current of the current-dependent overload relase tripping line at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board runder of NC contacts of auxiliary contacts of overload relay • at AC at 800 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay • at AC at 250 V  contact rating of auxiliary contacts of overload relay according to but phase operation at AC rated value • with multi-phase operation at AC rated value •	(80 )	0 01/
a AC at 60 Hz rated value  apparent pict-up power of magnet coil at AC  apparent holding power of magnet coil related to the input oblige  Ord-delay time  Dr-delay time  19 _ 29 ms  Ord-delay time  10 _ 24 ms  Ord-delay time  10 _ 25 ms  Ord-delay time  10 _ 25 ms  Ord-delay time  10 _ 25 ms  Ord-delay time  10 _ 26 ms  Ord-delay time  10 _ 28 ms  Ord	at DC rated value	0 0 V
Additing power at AC minimum   B.6.W   apparent pick-up power of magnet coil at AC   25 VA		
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC by A  25 VA  25 VA  26 VA  26 VA  27 VA  28 VA  28 VA  28 VA  28 VA  29 V		
apparent holding power of magnet coil at AC poerting rappet factor control supply voltage rated value of magnet coil peters to design of the power to transparent of trap out voltage of magnet coil related to the injust voltage.  ON-delay time 1929 ms  OFF-delay time 1924 ms  Overload rolay  Product function  • overload protection • phase failure detection • phase failure detection • phase failure detection • phase failure detection • symmetry detection • ground fault detection • external reset reset function • external reset  reset function • external reset  reset function  adjustable current response value current of the current-dependent overload relays  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  and the original current of auxiliary contacts of overload relay  at AC at 800 V • at DC at 250 V • at DC at 250 V • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  degree of protection NEMA rating of the enclosure  degree of protection		
operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage.  ON-delay time 19 29 ms  OFF-delay time 10 24 ms  Overload rollsy  product function 4 yes  • overload protection 5 yes  • phase failure detection 9 yes  • asymmetry detection 9 yes  • asymmetry detection 9 yes  • external reset 1 yes  • external reset 1 yes  • external reset 1 yes  reset function 10 yes  • availure protective coating on printed-circuit board 10 yes  relative repeat accuracy 13 s yes  relative repeat accuracy 13 s yes  reproduct facture protective coating on printed-circuit board 14 yes  number of NC contacts of auxiliary contacts of overload relay 10 yes  • at AC at 600 V 10 yes 10		
of magnet coil percental drop-out voltage of magnet coil related to the input voltage of Magnetic detection or vess asymmetry detection or vess asymmetry detection or vess asymmetry detection or vess or external reset furction or vess or external reset or vess or		
input voltage ON-delay time OF-delay time OF-delay time OF-delay time OF-delay time OF-delay time  Overload relay product function • overload protection • phase failure detection • asymmetry detection • asymmetry detection • caterial reset • test function • caterial reset • test function • caterial reset • cate	of magnet coil	
Overload rolay product function		50 %
product function  • overload protection  • phase failure detection  • asymmetry detection  • ground fault detection  • test function  • external reset  reset function  duplicatible current response value current of the current-dependent overload release  tripping time at phase-loss maximum  all stable current of acceptance 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  relative repeat accuracy  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  operational current of auxiliary contacts of overload  relay  at AC at 600 V  • at DC at 250 V  • at DC at 250 V  • at DC at 250 V  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  factoruse  degree of protection NEMA rating of the enclosure  design of the housing  mounting position  fastening method  type of contectable conductor cross-sections at line-side  sightening foruge (Ibrin) for supply youtage line-side  sightening foruge (Ibrin) for load-side outgoing feeder  maximum permissible  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  material of	ON-delay time	19 29 ms
product function  • overload protection  • phase failure detection  • asymmetry detection  • asymmetry detection  • asymmetry detection  • centernal reset  reset function  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  number of NC contacts of auxiliary contacts of overload relay  eat AC at 600 V  at DC at 250 V  at DC at 250 V  to at DC at 250 V  with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  feels of protection NEMA rating of the enclosure  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  fastering method  type of electrical connection for supply voltage line-side  tightening forque [tbf in] for supply  type of electrical connection for supply waximum  permissible  material of the conductor for load-side outgoing feeder  tightening torque [tbf in] for load-side outgoing feeder  and in the conductor for load-side outgoing feeder  tightening torque [tbf in] for load-side outgoing feeder	OFF-delay time	10 24 ms
overload protection     phase failure detection     a saymmetry detection     ground fault detection     test function     external reset     reset function     external reset     reset function     digustable 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     operational current of auxiliary contacts of overload     relay     at AC at 600 V     at DC at 250 V     at DC at 250 V     with multi-phase operation at AC rated value     with multi-phase operation at AC rated value     with multi-phase operation at AC rated value     edegree of protection NEMA rating of the enclosure     design of the housing     mounting position     fastening method     type of concactable conductor rorse-sections at line-side     tiply per of connectable conductor rorsupply maximum     premissible     material of the conductor for load-side outgoing feeder     mountum permissible     material of the conductor for load-side outgoing feeder     material of the conductor for load-s	Overload relay	
phase failure detection asymmetry detection ground fault detection est function external reset reset function 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 number of NC contacts of auxiliary contacts of overload relay experiment of the conductor for supply contacts of overload relay experiment of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder lightening torque [lif-in] for load-side outgoing feeder lightening torque [lif-in] for load-side outgoing feeder lightening torque [lif-in] for load-	product function	
asymmetry detection ground fault detection e external reset reset function 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  at AC at 600 V at AC at 600 V at AC at 600 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 design of the housing  Mounting position fastening method type of celectrical connection for supply voltage line-side tightening torque [lif-in] for supply type of celectrical connection for supply maximum permissible material of the conductor for load-side outgoing feeder type of condeathed conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder material of the conductor for load-side outgoin	<ul> <li>overload protection</li> </ul>	Yes
• ground fault detection • lest function • external reset reset function 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 elay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V • at DC at 250 V • at DC at 250 V • with single-phase operation at AC rated value • with multip-hase operation of AC rated value  Single of the housing  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 [librin] for supply  type of connectable conductor cross-sections at line-side at AVIX cables single or multi-stranded temperature of the conductor for supply  ype of electrical connection for load-side outgoing feeder tightening torque [librin] for load-side outgoing feeder with multip-position for load-side outgoin	<ul> <li>phase failure detection</li> </ul>	Yes
• external reset reset function • external reset reset function  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  number of NO contacts of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  • at DC at 250 V  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation degree of protection NEMA rating of the enclosure  design of the housing  Mounting/wiring  mounting position  type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply y maximum permissible  material of the conductor for load-side outgoing feeder tightening torque [bir in] for load-side outgoing feeder tightening torque [bir in] for load-side outgoing feeder tightening torque [bir in] for load-side outgoing feeder tighter 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	<ul> <li>asymmetry detection</li> </ul>	Yes
reset function Manual, automatic and remote 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 number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at DC at 250 V at DC at 250 V 5 A at DC at 250 V contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) with insulation voltage (UI) with insulation voltage (UI) with multi-phase operation at AC rated value with multi-phase operation at AC rated value degree of protection NEMA rating of the enclosure design of the housing mounting position fastening method type of electrical connection for supply voltage line-side at AVG cables single or multi-stranded temperature of the conductor cross-sections at line-side at AVG cables single or inutil-stranded temperature of the conductor cross-sections at aVG cables for load-side outgoing feeder tightening torque [Ibi-in] for load-side outgoing feeder tightening torque	<ul> <li>ground fault detection</li> </ul>	Yes
reset function 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 number of NC contacts of auxiliary contacts of overload relay  • at AC at 600 V • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value felsion of the housing  Mounting/wiring  Mounting/wiring  Mounting/wiring  mounting position type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for supply maximum permissible material of the conductor cross-sections at line-side tightening torque [lbf-in] for load-side outgoing feeder trype of connectable connection for load-side outgoing feeder trype of connectable conductor cross-sections at 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 maximum permissible material of the conductor for load-side outgoing feeder maximum permissible	<ul> <li>test function</li> </ul>	Yes
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 number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V contact rating of auxiliary contacts of overload relay according to U.L 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/wring 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 at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder type of onnectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of electrical connectio	external reset	Yes
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 operational current of auxiliary contacts of overload relay et at AC at 600 V at DC at 250 V tontact 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 enciosure 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 at 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 AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder remaximum 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	reset function	Manual, automatic and remote
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  1 A  contact rating of auxiliary contacts of overload relay according to UL  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation of the enclosure  degree of protection NEMA rating of the enclosure  design of the housing    Mounting/wiring		5.5 22 A
product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  number of NO contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  feegree of protection NEMA rating of the enclosure design of the housing  mounting/wiring  mounting/wiring  mounting position  fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of connectable conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder type of connectable conductor roross-sections at AWG cables for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable 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 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	tripping time at phase-loss maximum	3 s
number of NC contacts of auxiliary contacts of overload relay  number of NO contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  fersions  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 at AWG cables single or multi-stranded  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 for load-side outgoing feeder  transimum 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	relative repeat accuracy	1 %
relay number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V 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  **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 [libf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [libf-in] for load-side outgoing feeder type of connectable conductor rorss-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder stranded  temperature of the conductor for supply 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	product feature protective coating on printed-circuit board	Yes
operational current of auxiliary contacts of overload relay		1
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  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 at 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 AWG cables for load-side outgoing feeder type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder type of connectable conductor rors-sections at 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 AL or CU		1
at DC at 250 V contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui)  a with single-phase operation at AC rated value  b with multi-phase operation at AC rated value  celesing of the housing  mounting position  fastening method type of electrical connection for supply voltage line-side at AWG cables 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 Marimum permissible  material of the conductor for load-side outgoing feeder Marimum permissible  material of the conductor for load-side outgoing feeder Marimum permissible  material of the conductor for load-side outgoing feeder Marimum permissible  material of the conductor for load-side outgoing feeder Marimum permissible  material of the conductor for load-side outgoing feeder AL or CU	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  fenciosure  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 at AlVC cables single or multi-stranded  temperature of the conductor for supply 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 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 Material of the conductor for load-side outgoing fee		5 A
according to UL insulation voltage (Ui)  ● with single-phase operation at AC rated value  ● with multi-phase operation at AC rated value    Solve	● at DC at 250 V	1 A
insulation voltage (Ui)  ● with single-phase operation at AC rated value  ● with multi-phase operation at AC rated value  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 at AWG cables single or multi-stranded  temperature of the conductor for supply type of ecertrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder strength of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  **To C**  **To C		5A@600VAC (B600), 1A@250VDC (R300)
with multi-phase operation at AC rated value    Description		
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 [libf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder tightening torque [libf-in] for load-side outgoing feeder material of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder 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 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  MEMA 4 enclosure dustproof, waterproof & weatherproof  Vertical Surface mounting and installation  Screw-type terminals  1x (14 2 AWG)	with single-phase operation at AC rated value	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 type of connectable conductor cross-sections at line-side at 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 material of the conductor for supply type of connectable conductor for supply type of connectable 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 at AWG cables 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 AL or CU  AL or CU  AL or CU  Type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  AL or CU		300 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 type of connectable conductor cross-sections at line-side at 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 material of the conductor for supply type of connectable conductor for supply type of connectable 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 at AWG cables 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 AL or CU  AL or CU  AL or CU  Type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  AL or CU	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 at 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 type of connectable conductor for supply type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder 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 AL or CU  AL or CU  Type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  AL or CU  AL or CU  AL or CU  Type of connectable conductor for load-side outgoing feeder at AL or CU  AL or CU	degree of protection NEMA rating of the enclosure	NEMA 4 enclosure
Mounting/wiring       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [lbf-in] for supply       20 20 lbf-in         type of connectable conductor cross-sections at line-side at 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 load-side outgoing feeder       Screw-type terminals         tightening torque [lbf-in] for load-side outgoing feeder       20 20 lbf-in         type of connectable conductor cross-sections at 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		dustproof, waterproof & weatherproof
mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [libf-in] for supply  type of connectable conductor cross-sections at line-side at 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  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  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  AL or CU  AL or CU  Tx (14 2 AWG)  1x (14 2 AWG)  75 °C  75 °C  75 °C  AL or CU		
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 at 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 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 maximum permissible  material of the conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder maximum permissible  Maximum permissible  Screw-type terminals  1x (14 2 AWG)  Screw-type terminals  1x (14 2 AWG)  Screw-type terminals  1x (14 2 AWG)  To °C  1x (14 2 AWG)  AL or CU  AL or CU		Vertical
type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at 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 AWG cables for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  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  AL or CU  AL or CU  1x (14 2 AWG)  1x (14 2 AWG)  75 °C  75 °C  AL or CU		
tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at 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 at 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  20 20 lbf-in  1x (14 2 AWG)  1x (14 2 AWG)  1x (14 2 AWG)  AL or CU		
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder stranded  temperature of the conductor for load-side outgoing feeder  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  AL or CU  AL or CU  1x (14 2 AWG)  1x (14 2 AWG)  1x (14 2 AWG)  AL or CU  AL or CU		
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 at AWG cables for load-side outgoing feeder stranded  temperature of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  AL or CU  75 °C  1x (14 2 AWG)  75 °C  AL or CU	type of connectable conductor cross-sections at line-side	
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 at 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  AL or CU	temperature of the conductor for supply maximum	75 °C
type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at 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  AL or CU		Al or CU
tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at 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  AL or CU		
type of connectable conductor cross-sections at 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  AL or CU		**
maximum permissible material of the conductor for load-side outgoing feeder  AL or CU	type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	
		75 °C
type of electrical connection of magnet coil Screw-type terminals	material of the conductor for load-side outgoing feeder	AL or CU
type of the state	type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil 5 12 lbf·in	tightening torque [lbf·in] at magnet coil	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded		2x (16 12 AWG)

temperature of the conductor at magnet coil maximum permissible	75 °C
material of the conductor at magnet coil	CU
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in
type of connectable conductor cross-sections at contactor at 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 at AWG cables for auxiliary contacts single or multi-stranded	2x (20 14 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay for auxiliary contacts	CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
breaking capacity maximum short-circuit current (Icu)	
● at 240 V	14 kA
• at 480 V	10 kA
• at 600 V	10 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:83CUD95EG

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:83CUD95EG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:83CUD95EG&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83CUD95EG/certificate

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