## SIEMENS

## Data sheet

## US2:83CUB92WF



Duplex starter w/ alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

Fi	gu	re	si	mi	lar

product brand name	Class 83		
design of the product	Duplex controller with alternator		
special product feature	ESP200 overload relay		
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]			
<ul> <li>during storage</li> </ul>	-22 +149 °F		
during operation	-4 +104 °F		
ambient temperature			
during storage	-30 +65 °C		
during operation	-20 +40 °C		
country of origin	USA		
Horsepower ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
• at 200/208 V rated value	0.5 hp		
• at 220/230 V rated value	0.75 hp		
• at 460/480 V rated value	1.5 hp		
• at 575/600 V rated value	2 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 maximum	600 V		
operational current at AC at 600 V rated value	18 A		
mechanical service life (switching cycles) of the main contacts typical	1000000		
Auxiliary contact			
number of NC contacts at contactor for auxiliary contacts	0		
number of NO contacts at contactor for auxiliary contacts	1		
number of total auxiliary contacts maximum	8		
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)		
Coil			
type of voltage of the control supply voltage	AC		
control supply voltage			

• el AC até d'alle          00 V          el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         110110 V         el AC até d'alle         alle         AC até d'alle         alle         Ac até d'alle         alle         Ac até d'alle         alle		0 0)/
• Al AC at 60 Hz rated value     120. 120 V       holding power of magnet coll at AC     218 VA       apparent holding power of magnet coll at AC     218 VA       apparent holding power of magnet coll at AC     218 VA       apparent holding power of magnet coll at AC     218 VA       apparent holding power of magnet coll at AC     218 VA       apparent holding power of magnet coll related to the holding of the control to supply voltage rated value     60 %       CR-dialy time     1924 ms       Overhoad ratej     Yes       product function     Yes       • excind protection     Yes		
holding power at AC minimum     8.6 W       apparent holds-ip power of magnet coil at AC     25 VA       apparent holding power of magnet coil at AC     25 VA       operating range factor control supply voltage rated value     0.8 1.1       of magnet coil     0.9 20 ms       OFF-delay time     10 20 ms       OVerfoad ratay     10 24 ms       Overfoad ratay     Yes       • overfoad protection     Yes       • apyment protect function     Yes       • overfoad protection     Yes       • apyment response value current of the current:     0.75 3.4 A       Opported function     Yes       • reset function     Yes       • optioned fined reseton     Yes       • reset function     Yes       • reset function     Yes       • reset function     Yes       option fined reset		
apparent plok-up power of magnet coll at AC         248 VA           apparent holding power of magnet coll at AC         25 VA           operating range field: control uspply voltage related value         0.85 1.1           of magnet coll         0.85 1.1           of magnet coll         0.85 1.1           operating range field: control uspply voltage related value         0.85 1.1           obt-delay time         10 24 ms           OFF-delay time         10 24 ms           overlead relay         ************************************		
appenent holding power of magnet coil at AC         25 VA           operating magnet force control supply voltage relet value of magnet coil         0.85 1.1           of magnet coil         9.00 / 0.00 /		
operating range factor control supply voltage reted value         0.85 1.1           of magnic coll         50 %           ON-detay time         10 24 ms           Overload relay         11 10 24 ms           Overload relay         13 s           reset function         9 s           reset function         3 s           reset function         1 %           product fault protective cating on printed-circuit boad         1 %           product fault protective cating on printed-circuit boad         1 %           number of NC contacts of overload relay         2 %           operational current d auxiliary contacts of overload relay <t< td=""><td></td><td></td></t<>		
of magnet cail       Bolk         percental drop-out voltage of magnet coll related to the protection drop-out voltage of magnet coll related to the Double drop drop drop drop drop drop drop drop		
input voltage       1929 ms         OH-6dag tyrine       1024 ms         Overload relay       1024 ms         overload protection       Yes         • overload protection       Yes         • phase failure detection       Yes         • asymmetry detection       Yes         • ground faul detection       Yes         • external reset       Yes         • external reset       Yes         • external reset       Yes         • product faul detection       Yes         • external reset       Yes         • external reset       Yes         • external reset       Yes         • product faul detection       Yes         • external reset       Yes         • option faul detection       Yes         • totatist of auxiliary contacts of availiary con		0.00 1.1
OFF-delay time     10 24 ms       Overload relay     ves       overload protection     Yes       opase failure detection     Yes       orgund fault detection     Yes       • external reset     Yes       reset function     Manual, automatic and remote       adjustable current response value current of the current- degendent overfoad relass     1%       tripping time at phase-loss maximum     3 s       trabping time at phase-loss maximum     4 s       umber of NC contacts of auxiliary contacts of overload relay     5 A       eat DC at 250 V     1 A       contact rating of auxiliary contacts of overload relay     5 A       eat DC at 250 V     1 A       relation votage (U)     5 A       with multi-phase operation at AC rated value     600 V       owt traing of auxiliary contacts of overload relay     5 A       eat DC at 250 V     1 A       featoring method     Surtinad		50 %
Overload function         Yes           product function         Yes           • phase failure detection         Yes           • agymmetry detection         Yes           • ground fault detection         Yes           • external reset         Yes           reset function         Yes           • external reset         Yes           reset function         3 s           relative repeat accuracy         1%           product facture protective coaling on printed-circuit board         1           relative repeat accuracy         1%           product facture protective coaling on printed-circuit board         1           relative repeat accuracy         1%           product facture protective coaling on printed-circuit board         1           relative of IOC contacts of auxiliary contacts of overload         1           relative of auxiliary contacts of overload relay         5 A           • at CC at 280 V         1 A           contract rating of auxiliary contacts of overload relay         600 V           • with multi-phase operation at AC rated value         800 V           ewith rulti-phase operation at AC rated value         800 V           fourting write         3uface mounting and installation           type of leactrical connection	ON-delay time	19 29 ms
product function         Yes           • overfoad protection         Yes           • apsmetry detection         Yes           • agumetry detection         Yes           • agumetry detection         Yes           • external reset         Yes           reset function         Yes           adijistable current response value current of the current- dependent overload release         0.75 3.4 A           distable current response value current of the current- dependent overload release         0.75 3.4 A           read/us repeata couracy         1 %           product feature protective coating on printed-circuit board         Yes           read/us repeata couracy         1 %           product feature protective coating on printed-circuit board         1           relay         read base species         1           relay         read to auxiliary contacts of overload         1           relay         read to 600 V         1 A           contact raing of auxiliary contacts of overload relay         5 A           a tD Ca 1250 V         1 A           contact raing of auxiliary contacts of overload relay         500 V           act D Ca 1250 V         1 A           insulation voltage (UI)         with mult-phase operation at AC rated value         800 V	OFF-delay time	10 24 ms
overload protection     Yes     phase failure detection     Yes     asymmetry detection     Yes     ground fault detection     Yes     ground fault detection     Yes     ves     external reset     Yes     ves     external reset     Yes     reset function     Yes     reset     reset     reset     Yes     reset     reset     Yes     reset     reset     reset     Yes     reset     reset     reset     Yes     Yes     reset     rese	Overload relay	
Phase failure detection     Yes     asymmetry detection     Yes     ground fault detection     Yes     reset function     Yes     external reset     Yes     reset function     Yes     relative repeat-loss maximum     The product feature protective coating on printed-circuit board     Yes     rundber of NC contacts of auxiliary contacts of overload     1     relative repeat accuracy         i at AC at 600 V         i at DC at 250 V         i A     contact rating of auxiliary contacts of overload relay     eat DC at 250 V         i A     contact rating of auxiliary contacts of overload relay     secording to U.     insulation voltage (U))     with multi-phase operation at AC rated value         300 V     renticeur     design of the housing     dustproof, waterproof & resistant to corrosion     Mounting/wiring     mounting passition     Vertical     Sardes onductor for supply values line-side     at AVG cables single or multi-stranded     Sardes-ybe terminals     tightening include life information         Yes         if the conductor for supply values line-side     at AVG cables single or multi-stranded     the conductor for supply values (line-file         Screw-type terminals         (the internal single reminals         (the internal single reminals         (the internal single reminals         (the internals         (the internal single remin	product function	
esymmetry detection         Yes         external reset         extrd         external reset         extrd         external reset	<ul> <li>overload protection</li> </ul>	Yes
	<ul> <li>phase failure detection</li> </ul>	Yes
• test function         Yes           • external reset         Yes           • external reset         Yes           reset function         Manual, automatic and remote           adjustable current response value current of the current- dependent overhaad release         0.75 3.4 A           Implicit the at phase-loss maximum         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         1           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         1           relay         operational current of auxiliary contacts of overload relay         5.4           • at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay         5.4           according to UL         600 V           • with single-phase operation at AC rated value         300 V <b>Enclosure</b> NEMA 4x 304 stainless steel enclosure           design of the housing         Vertical           fastening method         Surface mounting and installation           Ype of electrols for supply voltage line-side         Screw-type terminals           fightening torque [lbf-in] for supply         2020 lbf-in           Vpe of onnectable conductor for supply ma	<ul> <li>asymmetry detection</li> </ul>	Yes
• external reset         Yes           reset function         Manual, automatic and remote           adjustable current response value current of the current- dependent overload release         0.75 3.4 A           tripping time a phase-loss maximum         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         Yes           number of NC contacts of auxiliary contacts of overload         1           relay         1           operational current of auxiliary contacts of overload relay         1           • at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay         5 A           • at DC at 250 V         1 A           insulation voltage (Ui)         600 V           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         300 V           Enclosure         MEMA 4x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NEMA 4x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         Neutring/wring           mounting position         Vertical         Surface mounting and installation           type of eledictical connection for supply voltage line-side <t< td=""><td><ul> <li>ground fault detection</li> </ul></td><td>Yes</td></t<>	<ul> <li>ground fault detection</li> </ul>	Yes
reset function       Manual, automatic and remote         adjustable current response value current of the current- dependent overload release       0.753.4 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         operational current of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       5 A         • at A C at 600 V       5 A         • at A C at 250 V       1 A         contact rating of auxiliary contacts of overload relay       5A@@000VAC (B600), 1A@250VDC (R300)         according to UL       insulation voltage (Ui)         • with single-phase operation at AC rated value       600 V         South       Surface mounting and installation         Mounting/wiring       Surface mounting and installation         Mounting/wiring       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [brin] for supply       20	test function	Yes
adjustable current response value current of the current- dependent overload release       0.75 3.4 A         itpipping time a phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board relay       1 %         number of NC contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay according to UL       1         outstarts of auxiliary contacts of overload relay according to UL       5 A         insultation voltage (UI)       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         esign of the housing       dustproof, waterproof & resistant to corrosion         Mounting position       Surface mounting and installation         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       20 20 loFin         type of electrical connection for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         Type of electrical connectain for load-side	external reset	Yes
dependent overload release       is         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1         operational current of auxiliary contacts of overload       1         eat DC at 800 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       5 A         according to UL       5 A         insultation voltage (Ui)       • with single-phase operation at AC rated value         600 V       900 V         Enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Mounting/wiring       Vertical         fightening torque [Uri in] for supply voltage line-side       Screw-type terminals         type of electrical connection for supply notiming fine-side       Screw-type terminals         type of selectrical connection for supply maximum       75 °C         prestribute       20	reset function	Manual, automatic and remote
relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1         operational current of auxiliary contacts of overload relay       1         • at AC at 600 V       5 A         insulation voltage (UI)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       NEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         dusproof, waterproof & resistant to corrosion       Mounting/wining         mounting position       Surface mounting and installation         lype of electrical connection for supply voltage line-side       Surface mounting and installation </td <td></td> <td>0.75 3.4 A</td>		0.75 3.4 A
product feature protective coating on printed-circuit board         Yes           number of NC contacts of auxiliary contacts of overload relay         1           number of NO contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay according to UL         5 A           insultation voitage (Ui)         600 V           with single-phase operation at AC rated value         600 V           etrocourse         800 V           etrocourse         NEMA 4x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         NemA4 x 3	tripping time at phase-loss maximum	3 s
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       5 A         • at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (UI)       • with single-phase operation at AC rated value         ewith multi-phase operation at AC rated value       600 V         ederge of protection NEMA rating of the enclosure       600 V         design of the housing       dustproof, waterproof & resistant to corrosion         Mounting/wiring       Surface mounting and installation         mounting position       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 electrical connector for supply maximum permissible       75 °C         material of the conductor rors-sections at AWG cables for load-side outgoing feeder       20 24 lbf-in         type of electrical connector for load-side outgoing feeder       20 24 lbf-in         type of electrical connector for load-side ou	relative repeat accuracy	1 %
relay       1         number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       1         • at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A         insultation voltage (UI)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       800 V         ecrocosure       degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Mounting/wiring       Vertical         fastening method       Surface mounting and installation         type of clocation for supply voltage line-side       Screw-type terminals         tightening torque [Ib/in] for supply       20 20 Ib/in         type of clocation for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       20 24 Ib/in         tightening torque [Ib/in] for load-side outgoing feeder       20 24 Ib/in         type of connectable conductor for supply maximum permissible <td>product feature protective coating on printed-circuit board</td> <td>Yes</td>	product feature protective coating on printed-circuit board	Yes
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         600 V         • with multi-phase operation at AC rated value         degree of protection NEMA rating of the enclosure         dustproof, waterproof & resistant to corrosion         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 WG cables single or multi-stranded         temperature of the conductor for supply maximum         premissible         material of the conductor for supply maximum         type of connectable conductor for sup		1
• at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       800 V         Enclosure       MEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       mounting which         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [IbFin] for supply       20       20 IbFin         type of connectable conductor for supply maximum       75 °C         permissible       Screw-type terminals         tightening torque [IbFin] for load-side outgoing feeder       20         type of electrical connection for load-side outgoing feeder       20         type of electrical connection for load-side outgoing feeder       20       24 IbFin		1
• at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V       Enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure       design of the housing         design of the housing       dustproof, waterproof & resistant to corrosion         Mounting/wiring	operational current of auxiliary contacts of overload relay	
contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         etclosure       800 V         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Mounting/wiring       mounting position         Ype of connectable conductor for supply voltage line-side       Screw-type terminals         tiphe of electrical connection for supply voltage line-side       1x (14 2 AWG)         tat AWG cables single or multi-stranded       1x (14 2 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor rors-sections at AWG cables or load-side outgoing feeder       20 24 lbf in         type of connectable conductor rors-sections at AWG cables ingle or multi-stranded       2x (14 10 AWG)         temperature of the conductor for load-side outgoing feeder       20 24 lbf in         type of connectable conductor for load-side outgoing feeder       2x (14 10 AWG)         tightening torque [lbf-in] for load-side outgoing feeder       75 °C         maximum permissible       <	• at AC at 600 V	5 A
according to UL       insulation voltage (Ui)         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       Memory of the housing         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       Munting/wiring         mounting/wiring       Wertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [lbf-in] for supply voltage line-side       1x (14 2 AWG)         tat AWG cables single or multi-stranded       AL or CU         type of electrical connection for load-side outgoing feeder       20 24 lbf-in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       20 24 lbf-in         type of electrical connection for load-side outgoing feeder       20 24 lbf-in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       22 24 lbf-in         type of connectable conductor for load-side outgoing feeder       2x (14 10 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         temperature of the conductor for load-side outgoing feeder       75 °C	• at DC at 250 V	1 A
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     with multi-phase operation at AC rated value     300 V  Fnclosure  degree of protection NEMA rating of the enclosure     design of the housing     dustproof, waterproof & resistant to corrosion  Mounting/wiring  mounting position     fastening method     Surface mounting and installation     type of electrical connection for supply voltage line-side     at AWG cables single or multi-stranded     temperature of the conductor for supply     AL or CU     type of electrical connection for load-side outgoing feeder     tightening torque [IbFin] for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection of magnet coil     type of electrical connection of magnet coil     type of electrical connection of load-side outgoing feeder     type of connectable conductor for load-side outgo		5A@600VAC (B600), 1A@250VDC (R300)
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     Surface mounting and installation     type of electrical connection for supply voltage 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 electrical connection for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of electrical conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection of none state outgoing feeder     type of electrical connection of none state outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection of magnet coil     type of connectable conductor for sex-sections at AVG     type of electrical connection of magnet coil     type of connectable conductor for load-s	insulation voltage (Ui)	
Enclosure           degree of protection NEMA rating of the enclosure         NEMA 4x 304 stainless steel enclosure           design of the housing         dustproof, waterproof & resistant to corrosion           Mounting/wiring         mounting position           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Screw-type terminals           tightening torque [lbf·in] for supply         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 supply         AL or CU           type of electrical connection for load-side outgoing feeder         20 24 lbf·in           type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder         75 °C           temperature of the conductor for load-side outgoing feeder         20 24 lbf·in           type of connectable conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         75 °C           material of the conductor	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
degree of protection NEMA rating of the enclosure         NEMA 4x 304 stainless steel enclosure           design of the housing         dustproof, waterproof & resistant to corrosion           Mounting/wiring	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
design of the housing       dustproof, waterproof & resistant to corrosion         Mounting/wiring       mounting position         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [lbf-in] for supply       20 20 lbf-in         type of connectable conductor cross-sections at line-side       1x (14 2 AWG)         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       20 24 lbf-in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       20 24 lbf-in         type of connectable conductor for load-side outgoing feeder       20 24 lbf-in         type of connectable conductor for load-side outgoing feeder       20 24 lbf-in         type of connectable conductor for load-side outgoing feeder       2x (14 10 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         type of connectable conductor for load-side outgoing feeder       2x (14 10 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         material of	Enclosure	
Mounting/wiring         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [lbf-in] for supply       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       20 24 lbf-in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       20 24 lbf-in         type of connectable conductor for load-side outgoing feeder       20 24 lbf-in         type of connectable conductor for load-side outgoing feeder       20 24 lbf-in         type of electrical connectable conductor for load-side outgoing feeder       2x (14 10 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       75 °C         temperature of the conductor for load-side outgoing feeder       75 °C         temperature of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C	degree of protection NEMA rating of the enclosure	NEMA 4x 304 stainless steel enclosure
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder20 24 lbf-intype of connectable conductor for load-side outgoing feeder atanded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder tightening torque [lbf-in] to load-side outgoing feeder75 °Ctype of connectable conductor for load-side outgoing feeder20 24 lbf-intype of connectable conductor for load-side outgoing feeder atanded75 °Ctemperature of the conductor for load-side outgoing feeder tranded75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coil5 12 lbf-intype of electrical connection of magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2x (16 12 AWG)	design of the housing	dustproof, waterproof & resistant to corrosion
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder cables for load-side outgoing feeder20 24 lbf-intype of connectable conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Ctemperature of the conductor for load-side outgoing feeder cables for load-side outgoing feeder20 24 lbf-intype of connectable conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder feeder75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder feeder75 °Ctightening torque [lbf-in] at magnet coil5 12 lbf-intightening torque [lbf-in] at magnet coil5 12 kWG)	Mounting/wiring	
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder cables for load-side outgoing feeder20 24 lbf-intype of connectable conductor for load-side outgoing feeder cables for load-side outgoing feeder20 24 lbf-intype of connectable conductor for load-side outgoing feeder cables for load-side outgoing feeder2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder stranded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder side outgoing feeder type of electrical connection of magnet coil5 crew-type terminalstightening torque [lbf-in] at magnet coil5 crew-type terminalstightening torque [lbf-in] at magnet coil5 crew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet tightening torque [lbf-in] at magnet coil5 12 AWG)	mounting position	Vertical
type of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf·in] for supply20 20 lbf·intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder20 24 lbf·intightening torque [lbf·in] for load-side outgoing feeder20 24 lbf·intype of connectable conductor for load-side outgoing feeder2x (14 10 AWG)cables for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Ctype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		Surface mounting and installation
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feederScrew-type terminalstype of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder20 24 lbf·intype of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder75 °Ctype of electrical connection of magnet coil75 °Ctype of electrical connection of magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet type of connectable conductor cross-sections of magnet2x (16 12 AWG)		
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf·in] for load-side outgoing feeder20 24 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder sigle or multi- stranded75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder may feeder75 °Ctype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet tightening torque [lbf·in] at magnet coil2x (16 12 AWG)	tightening torque [lbf·in] for supply	20 20 lbf·in
permissiblematerial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf·in] for load-side outgoing feeder20 24 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder CUCUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		1x (14 2 AWG)
type of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf-in] for load-side outgoing feeder20 24 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilCUtightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		75 °C
tightening torque [lbf-in] for load-side outgoing feeder20 24 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilCUtightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet type of connectable conductor cross-sections of magnet2x (16 12 AWG)	material of the conductor for supply	AL or CU
tightening torque [lbf-in] for load-side outgoing feeder20 24 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilCUtightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet type of connectable conductor cross-sections of magnet2x (16 12 AWG)	type of electrical connection for load-side outgoing feeder	Screw-type terminals
cables for load-side outgoing feeder single or multi- stranded       75 °C         temperature of the conductor for load-side outgoing feeder maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       CU         type of electrical connection of magnet coil       Screw-type terminals         tightening torque [lbf-in] at magnet coil       5 12 lbf-in         type of connectable conductor cross-sections of magnet       2x (16 12 AWG)	tightening torque [lbf·in] for load-side outgoing feeder	20 24 lbf·in
maximum permissible     CU       material of the conductor for load-side outgoing feeder     CU       type of electrical connection of magnet coil     Screw-type terminals       tightening torque [lbf-in] at magnet coil     5 12 lbf-in       type of connectable conductor cross-sections of magnet     2x (16 12 AWG)	cables for load-side outgoing feeder single or multi-	2x (14 10 AWG)
type of electrical connection of magnet coil       Screw-type terminals         tightening torque [lbf·in] at magnet coil       5 12 lbf·in         type of connectable conductor cross-sections of magnet       2x (16 12 AWG)		75 °C
tightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)	material of the conductor for load-side outgoing feeder	CU
tightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)	type of electrical connection of magnet coil	Screw-type terminals
type of connectable conductor cross-sections of magnet 2x (16 12 AWG)		5 12 lbf·in
		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 (lcu)				
• 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=US2:83CUB92WF Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:83CUB92WF				
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