## SIEMENS

## Data sheet

## US2:83CUA95BH



Duplex starter w/o alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, 380-440/440-480V 50/60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

Figures	imilar
---------	--------

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
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	
<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	
• at 200/208 V rated value	0.17 hp
• at 220/230 V rated value	0.17 hp
<ul> <li>at 460/480 V rated value</li> </ul>	0.33 hp
<ul> <li>at 575/600 V rated value</li> </ul>	0.5 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	

	at DO asta duralua	0 0)/
• A A C at 60 14z rates value     440480 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 at AC     218 VA       apparent power at Act at 60 V     0.8511       Ch-Holding time     1928 me       OF-Folzy time     1924 me       overload protection     Yes       • external reset     Yes       • exte	at DC rated value	0 0 V
India gover at AC minimum         8.6 W           apparent plokup power of magnet coil at AC         24.8 VA           apparent plokup power of magnet coil at AC         25 VA           operating range factor control supply voltage rated value         0.8 11           off magnet coil         0.8 11           OPF-datay time         10 29 ms           OPF-datay time         10 24 ms           Overload ratay         Ves           • symmetry detection         Yes           • start function         Ves           • detartified         0.25 1 A           Øppring time at phase-toss maximum         1 s           • detartified         1 s           Intumber of NC contacts of overload relay         3 s           • at C at 80 vU         1 A           Contacts at an using contac		
apparent plack-up power of magnet coil at AC         218 VA           apparent holding power of magnet coil at AC         25 VA           operating range factor control supply votage rated value of magnet coil.         0.85 1.1           of magnet coil.         0.9 %           ON-delay time         19 28 ms           Overload relay time         10 24 ms           Overload relay time         10 24 ms           Overload relay time         10 24 ms           Overload relay         Yes           • saymmetry detection         Yes           • saymetry detection         Yes           • saymetry detection         Yes           • test function         Yes           • and Cat sto V         1           • and Cat		
apparent holding power of magnet coil at AC         25 VA           operating range foctor control supply votage rated value of magnet coil         0.85 1.1           operating range foctor control supply votage rated value of magnet coil         0.85 1.1           Orb-delay time         10 20 ms           OFF-delay time         10 20 ms           Overload protection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • stat function         Yes           • external reset         Yes           • stat function         Yes           • external reset         Yes           reset function         Yes           • external reset         Yes           reset function         Yes           • external reset         Yes           reset function         Yes           reset		
appending range factor control supply voltage rated value         0.85 1.1           of magnit coll         50 %           CN-detay time         19 29 ms           OPeriod protection         10 24 ms           Overload rate         19 29 ms           Overload rate         19 29 ms           Overload rate         19 24 ms           Overload protection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • esternal reset         Yes           • esternal reset         Yes           reset function         Yes           • esternal reset         Yes           reset function         Yes           • esternal reset         Yes           reset function         3 s           restrict response value current of the current-         0.25 1 A           Objection velocid a protection costing on printed-circuit board         1%           restrict repretext exating on printed-circuit board         1           number of NO contacts of overload relay         5 A           • at DC at 250 V         1 A           operational current of auxiliary contacts of overload relay         5 A           • at DC at 250 V         5 A		
of magnit coli       Diversity of magnitized to the proceed of the proc		
input voltage         1929 ms           OK-delay time         1024 ms           Overload roles         1024 ms           Overload protection         Yes           • overload protection         Yes           • asymmetry detection         Yes           • ground fault detection         Yes           • ground fault detection         Yes           • external react         Yes           • external react         Yes           repert function         Yes           • external react         Yes           • repert function         Yes           • external react         Yes           • repert function         Yes           • external react         Yes           • product flasture protective costing on printed-circuit board         1           relative repeat accuracy         1%           product flasture protective costing on printed-circuit board         1           • at DC at 280 V         5 A           • at DC at 280 V         5 A           • at DC at 280 V         5 A           • with multi-phase operation at AC rated value         600 V           • with angle-phase operation at AC rated value         800 V           • with angle-phase operation at AC rated valu		0.85 1.1
OPE-Caleby time     10 24 ms       Overload roley     Product function       • overload protection     Yes       • phase failure detection     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • external reset     Yes       • external reset     Yes       reset function     Manual, automatic and remote       adjustable current response value current of the current- dependent overload release     3 s       relative repeat accuracy     1 %       product feature protective coaling on printed-circuit board relay     1 %       number of NC contacts of auxiliary contacts of overload relay according to 1L     1       operational current of auxiliary contacts of overload relay etable: repeat accuracy     1       optrational current of auxiliary contacts of overload relay etable: repeat accuracy     1       optrational current of auxiliary contacts of overload relay etable: repeat action 1     5 Å       • at DC at 250 V     5 Å       • at DC at 250 V     5 Å       • with multi-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     000 V       • with multi-phase operation at AC rated value     600 V       • with multi-phase operation at AC rated value     5 rec- material of the conduct		50 %
Overload vilay         Yes           product function         Yes           • overload protection         Yes           • asymmetry detection         Yes           • ground fault detection         Yes           • external reset         Yes           reset function         3 s           refeative repeat accuracy         1%           product feature protective coating on printed-circuit board         1           reader of NC contacts of auxiliary contacts of overload         1           readber of NC contacts of overload relay         5 A           • at CC at 280 V         1A           contact rating of auxiliary contacts of overload relay         5A@800VAC (B600), 1A@250VDC (R300)           ediston voltage (U)         • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value	ON-delay time	19 29 ms
product function         Yes           • overload protection         Yes           • phase failure detection         Yes           • asymmetry detection         Yes           • external reset         Yes           • external reset         Yes           reset function         Yes           adjustable current response value current of the current- dependent overload release         0.25 1 A           ittipping time at phase-loss maximum         3 s           relative protective coating on printed-circuit board         Yes           product feature protective coating on printed-circuit board         1           relative represence of auxiliary contacts of overload         1           relative represence of auxiliary contacts of overload relay         6 A           • at DC at 250 V         1 A           contact relating of auxiliary contacts of overload relay         5 A           • at DC at 250 V         1 A           insultation voltage (U)         • with single-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         800 V         300 V           • with single-phase operation at AC rated value         800 V         300 V           • with multi-phase operation at AC rated value         800 V         300 V	OFF-delay time	10 24 ms
• overload protection     • phase failure detection     • phase failure detection     • asymmetry detection     • ges     • asymmetry detection     • yes     • asymmetry detection     • yes     • external reset     • external	Overload relay	
Phase failure detection     Yes     asymmetry detection     Yes     ground fault detection     Yes     result function     Yes     ves     external reset     Yes     reset function     Zes     ves     external reset     Yes     Yes     reset function     Zes     adjustable current response value current of the current- dependent overload release     frighting time at phase-loss maximum     3 s     tripping time at phase-loss maximum     3 s     relative repeat-loss maximum     3 s     relative repeat accuracy     1 %     product feature protective coating on printed-circuit board     Yes     rumber of NC contacts of auxiliary contacts of overload     1     relative repeat accuracy     i at AC at 600 V     s     at DC at 250 V     1A     contact rating of auxiliary contacts of overload relay     eat AC at 600 V     i at DC at 250 V     1A     contact rating of auxiliary contacts of overload relay     eat AC at 600 V     i with multi-phase operation at AC rated value     300 V     Enclosure     design of the housing     Mounting/wring     mounting position     Vertical     fastering method     Surface mounting and installation     Surface mounting and	product function	
e asymmetry detection         Yes         yes         external reset         external         extrict reset	<ul> <li>overload protection</li> </ul>	Yes
eryound fault detection         Yes         external reset         Yes         external reset         Yes         external reset         Yes         reset function         Manual, automatic and remote         Q251 A         Q251 A         relative repeat accuracy         repeat accuracy         repeat accuracy         repeat accuracy         renorepeat accond relay         according	<ul> <li>phase failure detection</li> </ul>	Yes
• test function         Yes           • external reset         Yes           reset function         Manual, automatic and remote           adjustable current response value current of the current- dependent overload release         0.25 1 A           independent overload release         1 %           product feature protective coating on printed-circuit board         1           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         1           relative repeat accuracy         1 %           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay eat AC at 600 V         5 A           • at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay according to UL         600 V           • with multi-phase operation at AC rated value         300 V <b>Enclosure</b> NEMA 1 enclosure           design of the housing         Indoors, usable on a general basis           Mounting/viring         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded         75 °C           type of oinectable conductor for supply maximun permissible<	<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         0.25 1 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 contracts of auxiliary contacts of overload         1           relative repeat accuracy         1 %           operational current of auxiliary contacts of overload relay         1           • at DC at 250 V         1 A           contact reling of auxiliary contacts of overload relay         5 Å           • at DC at 250 V         1 Å           insulation voltage (Ui)         5 Å           • with multi-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         500 V           • with multi-phase operation at AC rated value         800 V           • with multi-phase operation at AC rated value         800 V           • anting position         Surface mounting and installation           Surface mounting and installation         Surface mounting and installation           Sure	<ul> <li>ground fault detection</li> </ul>	Yes
reset function       Manual, automatic and remote         adjustable current response value current of the current- dependent (vertical response value current of the current- dependent (vertical vertical control of the control of the current- dependent (vertical control of auxiliary contacts of overload relay       3 s         relative repeat accuracy       1 %         product feature protective coaling on printed-circuit boort       Yes         number of NC contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay ext AC at 600 V       5 A         eit AC at 500 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       ewith single-phase operation at AC rated value       600 V         with multi-phase operation at AC rated value       500 V         edegree of protection NEMA rating of the enclosure indoors, usable on a general basis       500 V         Mounting/wiring       Surface mounting and installation         Mounting position       Surface mounting and installation         type of electrical connection for supply voltage 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 outigoing feeder material of the conductor for load-side	test function	Yes
adjustable current response value current of the current- dependent overload release       0.25 1 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1%         product feature protective coating on printed-circuit board relay       1%         operational current of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay according to UL       1         insultation voltage (U)       5 A         ontacts of auxiliary contacts of overload relay according to UL       5A         insultation voltage (U)       5 A         • eit DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@00VAC (B600), 1A@250VDC (R300)         insultation voltage (U)       600 V         • with multi-phase operation at AC rated value       600 V         degree of protection NEMA rating of the enclosure design of the housing       indoors, usable on a general basis         Mounting position       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [Ibrin] for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       72 °C         Type of electrical connection for load-side outgoing feeder<	external reset	Yes
dependent overload release     Itipping time at phase-loss maximum       If a set in the set of	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         • at CC 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)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       500 V         feesign of the housing       Indoors, usable on a general basis         Mounting/wiring       NEMA 1 enclosure         mounting position       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Surface mounting and installation         Type of electrical connection for supply woltage line-side       1x (14 2 AWG)         ta AWG atbes single or multi-stranded       75 °C         material of the conductor for supply maximum       75 °C         pereletr	, , , , , , , , , , , , , , , , , , , ,	0.25 1 A
product feature protective coating on printed-circuit board         Yes           number of NC contacts of auxiliary contacts of overload relay         1           number of NC contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay according to UL         5 A           insultation voltage (U)         5 A           ext DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay according to UL         5 A           insultation voltage (U)         600 V           with single-phase operation at AC rated value         600 V           gene of protection NEMA rating of the enclosure         NEMA 1 enclosure           degree of protection NEMA rating of the enclosure         NeMA 1 enclosure           mounting/wiring         indoors, usable on a general basis           Mounting/wiring         20 20 IbFin           tightening torque [IbFin] for supply voltage line-side at AWG cables single or multi-stranded         Screw-type terminals           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         20 20 IbFin           type of electrical connectain for load-side outgoing feeder         75 °C	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 at AC at 600 V       5 A         • at AC at 500 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A         insulation voltage (U)       5 A (a600VAC (B600), 1A@250VDC (R300)         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         degree of protection NEMA rating of the enclosure       600 V         degree of protection NEMA rating of the enclosure       900 V         fastening method       Yverical         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connectable conductor for supply voltage line-side       Screw-type terminals         tightening torque [lbf-in] for supply       20 20 lbf-in         type of electrical connectable single or multi-stranded       Screw-type terminals         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       20 24 lbf-in         type of electrical connectable conductor rores-sections at AWG cables for load-side outg		1 %
number of NC contacts of auxiliary contacts of overload relay       1         number of NC contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay at AC at 600 V       5 A         • at AC at 500 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A         insulation voltage (U)       5 A (a600VAC (B600), 1A@250VDC (R300)         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         degree of protection NEMA rating of the enclosure       600 V         degree of protection NEMA rating of the enclosure       900 V         fastening method       Yverical         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connectable conductor for supply voltage line-side       Screw-type terminals         tightening torque [lbf-in] for supply       20 20 lbf-in         type of electrical connectable single or multi-stranded       Screw-type terminals         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       20 24 lbf-in         type of electrical connectable conductor rores-sections at AWG cables for load-side outg	product feature protective coating on printed-circuit board	Yes
number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       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)         according to UL       insulation voltage (Ui)       600 V         • with multi-phase operation at AC rated value       600 V         edegree of protection NEMA rating of the enclosure       600 V         degree of protection NEMA rating of the enclosure       NEMA 1 enclosure         design of the housing       indoors, usable on a general basis         Mounting/wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded       1x (14 2 AWG)         temperature of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       20 24 lbf:in         tightening torque [IbFin] for load-side outgoing feeder       20 24 lbf:in         tightening torque [IbFin] for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C	number of NC contacts of auxiliary contacts of overload	1
operational current of auxiliary contacts of overload relay       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       5 A@@00VAC (B600), 1A@250VDC (R300)         according to UL       insulation voltage (Ui)         • with multi-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       600 V         • exit on the housing       indoers, usable on a general basis         Mounting/wiring       indoers, usable on a general basis         Mounting/wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         tightening torque [IbFin] for supply       20 20 IbFin         type of electrical connection for supply waizing       75 °C         premissible       75 °C         material of the conductor for supply maximum       75 °C         premissible       20 24 IbFin         type of electrical connection for load-side outgoing feeder       20 24 IbFin         type of electrical connection for load-side outgoing feeder       20 24 IbFin         type of electrical connection for load-side outgoing feeder       20 24 IbFin         tightening torque [I	number of NO contacts of auxiliary contacts of overload	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 multi-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     600 V       • evith multi-phase operation at AC rated value     800 V       • evith multi-phase operation at AC rated value     800 V       • evith multi-phase operation at AC rated value     800 V       • evith multi-phase operation at AC rated value     800 V       • evith multi-phase operation at AC rated value     800 V       • evith multi-phase operation at AC rated value     800 V       • evitor     Indoors, usable on a general basis       Mounting/wiring     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 for supply maximum     75 °C       permissible     Screw-type terminals       tightening torque [lbf-in] for load-side outgoing feeder     20       tightening torque [lbf-in] for load-side outgoing feeder     20       t	5	
• 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 design of the housing     Indoors, usable on a general basis       Mounting/wiring     indoors, usable on a general basis       mounting position     Vertical       fastening method     Surface mounting and installation       type of electrical connection for supply voltage line-side     fastening method       tightening torque [lbf-in] for supply     20 20 lbf in       type of electrical connection 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 electrical connection for load-side outgoing feeder     20 24 lbf in       tightening torque [lbf-in] for load-side outgoing feeder     20 24 lbf in       tuberearties     75 °C       material of the conductor for load-side outgoing feeder     75 °C       material of the conductor for load-side outgoing feeder     75 °C       tightening torque [lbf-in] at magnet coil     Screw-type terminals       tightening torque [lbf-in] of load-side ou		5 A
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         express of protection NEMA rating of the enclosure       NEMA 1 enclosure         degree of protection NEMA rating of the enclosure       NEMA 1 enclosure         design of the housing       indoors, usable on a general basis         Mounting/wiring       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 for supply maximum permissible       75 °C         material of the conductor for supply maximum       75 °C         tightening torque [lbf-in] for load-side outgoing feeder       20 24 lbf in         type of connectable conductor ross-sections at AWG cables single or multi-stranded       2x (14 10 AWG)         temperature of the conductor for load-side outgoing feeder       2x (14 10 AWG)         tightening torque [lbf-in] for load-side outgoing feeder       2x (14 10 AWG)         tightening torque [lbf-in] to magnet coil       5crew-type terminals         tightening torque [lbf-in]       10 AWG		
insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       300 V         degree of protection NEMA rating of the enclosure       Indoors, usable on a general basis         Mounting/wiring       indoors, usable on a general basis         Mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [lbFin] for supply       20 20 lbFin         type of electrical connection for load-side outgoing feeder       1x (14 2 AWG)         material of the conductor for supply maximum       75 °C         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       20 24 lbFin         tightening torque [lbFin] for load-side outgoing feeder       20 24 lbFin         type of electrical connectable conductor for load-side outgoing feeder       22 20 lbFin         type of electrical connectable conductor for load-side outgoing feeder       20 24 lbFin         tightening torque [lbFin] for load-side outgoing feeder       20 24 lbFin         type of electrical connection for load-side outgoing feeder       75 °C		
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      Enclosure      degree of protection NEMA rating of the enclosure     design of the housing     indoors, usable on a general basis      Mounting/wiring      mounting position     fastening method     Surface mounting and installation     type of electrical connection for supply voltage line-side     it ghtening torque [lbf-in] for supply     20 20 lbf-in     tx (14 2 AWG)      temperature of the conductor for supply maximum     permissible     material of the conductor for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection of magnet coil     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 connectable conductor for		
with multi-phase operation at AC rated value 300 V      Enclosure      degree of protection NEMA rating of the enclosure     indoors, usable on a general basis      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     matrial of the conductor for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection of nulti-stranded     temperature of the conductor for load-side 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 electrical connection of magnet coil     type of electrical connection of magnet coil     type of connecta		600 V
Enclosure           degree of protection NEMA rating of the enclosure         NEMA 1 enclosure           design of the housing         indoors, usable on a general basis           Mounting/wiring         indoors, usable on a general basis           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         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 ross-sections at AWG cables for load-side outgoing feeder         20 24 lbf-in           type of connectable conductor ross-sections at AWG cables 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           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		
degree of protection NEMA rating of the enclosure design of the housingNEMA 1 enclosure indoors, usable on a general basisMounting/wiringindoors, usable on a general basismounting 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 load-side outgoing feeder20 24 lbf-intype of connectable conductor cross-sections at AWG cables 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 tightening torque [lbf·in] for load-side outgoing feeder material of the conductor 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 maximum permissible2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °C	· · · · ·	
design of the housing       indoors, usable on a general basis         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 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 electrical connection of magnet coil       5 12 lbf-in         tightening torque [lbf-in] at magnet coil       5 12 lbf-in         tightening torque [lbf-in] at magnet coil       5 12 lWG)		NEMA 1 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       2x (14 10 AWG)         temperature of the conductor for load-side outgoing feeder maximum permissible       75 °C         temperature of the conductor for load-side outgoing feeder       2x (14 10 AWG)         type of electrical connectable conductor for load-side outgoing feeder maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       75 °C         type of electrical connection of magnet coil       5crew-type terminals         tightening torque [lbf-in] target coil       5crew-type terminals         tightening torque [lbf-in] at magnet coil       5crew-type terminals         tightening torque		
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 taranded2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder2x (14 10 AWG)type of electrical connection of no load-side outgoing feeder tuppe of electrical connection for load-side outgoing feeder75 °Ctype of load-side outgoing feeder tuppe of connectable conductor for load-side outgoing feeder2x (14 10 AWG)tuppe 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)	5 5	
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 feeder20 24 lbf-intightening torque [lbf-in] for load-side outgoing feeder20 24 lbf-intype of connectable conductor for load-side outgoing feeder20 24 lbf-intype of connectable conductor 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 feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaterial 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)		Madiat
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)type of electrical connection for load-side outgoing feeder2x (14 10 AWG)type of connectable conductor for load-side outgoing feeder75 °Ctemperature of the conductor 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 feeder75 °Cmaterial of the conductor for load-side outgoing feederCUtype 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)		
tightening 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 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 maximum permissible2x (14 10 AWG)temperature of the conductor 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 feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaterial 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)		
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 for load-side outgoing feeder2x (14 10 AWG)temperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaterial 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)		
at AWG cables single or multi-stranded75 °Ctemperature 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 top of electrical connection of magnet coil75 °Ctightening torque [lbf-in] at magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet 2x (16 12 AWG)		
permissibleAL 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 material of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder type 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)	at AWG cables single or multi-stranded	
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 magnet2x (16 12 AWG)	material of the conductor for supply	AL or CU
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded       2x (14 10 AWG)         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)	type of electrical connection for load-side outgoing feeder	Screw-type terminals
cables for load-side outgoing feeder single or multi- stranded75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederCUtype 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)		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)
material of the conductor for load-side outgoing feederCUtype 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)		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)		Screw-type terminals
type of connectable conductor cross-sections of magnet 2x (16 12 AWG)		5 12 lbf·in
	type of connectable conductor cross-sections of magnet	2x (16 12 AWG)

75 °C		
CU		
Screw-type terminals		
10 15 lbf·in		
1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)		
75 °C		
CU		
Screw-type terminals		
7 10 lbf·in		
2x (20 14 AWG)		
75 °C		
CU		
10kA@600V (Class H or K); 100kA@600V (Class R or J)		
Thermal magnetic circuit breaker		
14 kA		
10 kA		
10 kA		
NEMA ICS 2; UL 508; CSA 22.2, No.14		
ıres,)		
www.usa.siemens.com/iccatalog Industry Mall (Online ordering system)		
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:83CUA95BH		
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:83CUA95BH		
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83CUA95BH⟨=en		
Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:83CUA95BH/certificate		

last modified:

1/25/2022 🖸