## SIEMENS

## Data sheet

## US2:83DUE95WH



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 380-440/440-480V 50/60Hz coil, Non-combination type, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

Figure	simil	ar
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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
<ul> <li>during operation</li> </ul>	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	7.5 hp
• at 220/230 V rated value	7.5 hp
<ul> <li>at 460/480 V rated value</li> </ul>	0 hp
• at 575/600 V rated value	0 hp
Contactor	
size of contactor	NEMA controller size 1
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	27 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	

et AC at 60 Hz rated value             440480 V             440480 V             Adv X		0 0)/
• • • • • • • • • • • • • • • • • • •	at DC rated value	0 0 V
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     0.6 11       of magnet coil     50 %       Deveload rate     50 %       OFF-delay time     10 24 ms       Overload rate     Yes       • overload protection     Yes       • overload protection     Yes       • expander leader     Yes       • explained factor     Yes <td< td=""><td></td><td></td></td<>		
apparent plackup power of magnet coal at AC         218 VA           apparent holding power of magnet coal at AC         218 VA           operating range factor control supply voltage reled value of magnet coal         0.85 1.1           of magnet coal         0.9 %           ON-delay time         19 28 ms           Overload relay         0.9 %           Product failay         0 24 ms           Overload relay time         19 28 ms           Overload relay time         19 24 ms           Overload relation         Yes           • saymmetry detection         Yes           • saymetry detection         Yes           • saymetry detection         Yes           • test function         Yes           • and Cat a		
appenent holding power of magnet coil # AC         25 VA           operating magnet foctor control supply voltage reled value of magnet coil         0.65 1.1           of magnet coil         9.85 1.1           operating magnet coil         9.95 1.1           operating magnet coil         9.95 1.1           operating magnet coil         9.9 28 ms           OPE-collary lime         10 24 ms           Overload protection         Yes           • operating full detection         Yes           • asymmetry detection         Yes           • external reset         Yes           relay and phase-loss maximum         3.6           relayer of NO contacts of auxiliary contacts of overload         1           relayer         1           relayer         1           opticat failer phase-loss maximum         3.6           relayer         1           relayer         1           opticat failer phase-loss maximum         3.6           relayer of NO contacts of auxiliary contacts of overload relay         1		
operating range factor control supply voltage reted value of magnic coll         0.85 1.1           percental drop-out voltage of magnet coll related to the input voltage.         50 %           CM-delay time         10 24 ms           Overload relay         me           product function         Yes           • overload protection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • external reset         Yes           • number of NC contacts of auxiliary contacts of overload relay         10 40 A           operational current of auxiliary contacts of overload relay         1           • at DC at 250 V         1 A           • at DC at 250 V         5 A           • at DC at 250 V         5 A           • at DC		
of magnet cail       Bolk         percental drop-out voltage of magnet coll related to the input voltage.       Bolk         ON-delay time       1024 ms         Overload relay       product function         • overload protection       Yes         • asymmetry detection       Yes         • asymmetry detection       Yes         • asymmetry detection       Yes         • esternal reset       Yes         reset function       Yes         • esternal reset       Yes         reset function       Manual, automatic and remote         10 40 A       dependent deverad relases         11		
input voltage         9         9           OH-delay line         10         24 ms           Overload relay         9         9           product function         Yes         9           • overload protection         Yes         9           • asymmetry detection         Yes         9           • asymmetry detection         Yes         9           • external reset         Yes         9           • external reset         Yes         9           • test function         Yes         9           • external reset         Yes         9           • reset function         Manual, automatic and remote         10           dependent covidar relases         3 s         16           relative repeat accuracy         1 %         1           product feature protective coating on printed-circuit bard         1         1           relative repeat accuracy         1 %         1         1           periation al urrent of A contacts of auxiliary contacts of overload relay         5 A         1 A           • at DC at 280 V         5 A         1 A         5           • at DC at 280 V         5 A         1 A         5           • with muling-base operation at AC		0.85 1.1
OPE-Federy time     10 24 ms       Overload relay <ul> <li>overload protection</li> <li>prace time detection</li> <li>yes</li> <li>asymmetry detection</li> <li>Yes</li> <li>asymmetry detection</li> <li>Yes</li> <li>est function</li> <li>Adjustable current response value current of the current</li> <li>dependent overload relaxes</li> <li>as</li> <li>relative repeat accuracy</li> <li>product feature protective coating on printed-circuit board</li> <li>Yes</li> <li>at AC catabox of auxiliary contacts of overload relay</li> <li>at AC at 800 V</li> <li>at DC at 250 V</li> <li>with multi-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> <li>foot V</li> <li>with multi-phase operation at AC rated value</li> <li>foot V</li> <li>with multi-phase operation at AC rated value</li> <li>foot the rousing</li> <li>degree of protection NEMA rating of the enclosure</li> <li>degree of protection nEMA rating of the enclosure</li> <li>degree of rotection NEMA rating of the enclosure</li> <li>dustroof, waterproof &amp; resistant to corrosion</li> <li>doont V</li></ul>		50 %
Overload function         Yes           product function         Yes           • overload protection         Yes           • agymmetry detection         Yes           • ground fault detection         Yes           • external reset         Yes           reset function         Yes           • external reset         Yes           reset function         3 s           relative repeat accuracy         10 – 40 A           diplicatible current response value current of the current- dependent overload release         11           ripping time at phase-loss maximum         3 s           relative repeat accuracy         15           product Fathure protective coaling on primted-circuit board         1           operational current of auxiliary contacts of overload         1           relaty         4 at C at 600 V         5 A           at C at 600 V         1A           contact rating of auxiliary contacts of overload relay         5A@800VAC (B600), 1A@250VDC (R300)           ecording to U.         insultation voltage (U)         600 V           with multi-phase operation at AC rated value         600 V         300 V           Enclosuru         dustproof, waterproof & resistant to corrosion         Maxindagwitte           degree of protecton N	ON-delay time	19 29 ms
product function         Yes           • overfoad protection         Yes           • phase failure detection         Yes           • asymmetry detection         Yes           • ground fault detection         Yes           • external reset         Yes           • test function         Yes           • external reset         Yes           reset function         Yes           adjustable current response value current of the current- dependent overdoat release         10 40 A           relative repeat-loss maximum         3 s           product feature protective coating on printed-circuit board         Yes           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 %           protection flag         1           orntart rating of auxiliary contacts of overload relay         5 A           • at DC at 250 V         1 A           insulation voltage (U)         • with single-phase operation at AC rated value           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         5	OFF-delay time	10 24 ms
• overload protection     Yes     • phase failure detection     Yes     asymmetry detection     Yes     agent of the busing     for the set of the current of the current     dependent overload relaxes     Yes     vestmal reset     Ves     vestmal reset     Yes     vestmal reset     Yes     vestmal reset     Yes     vestmal reset     Ves     vestmal     relative repeat accuracy     1     ves     reset function     ves     runder of NC contacts of auxiliary contacts of overload     relay     ves     ves	Overload relay	
Phase failure detection     Yes     asymmetry detection     Yes     aground fault detection     Yes     result function     Yes     ves     external reset     Yes     reset function     Yes     Yes     reset function     Jo     adjustable current response value current of the current- dependent overload release     fitiping time at phase-loss maximum     3 s     fitiping time at phase-loss maximum     3 s     relative repotective coating on printed-circuit board     Yes     product feature protective coating on printed-circuit board     Yes     product feature protective coating on printed-circuit board     Yes     product feature protective coating on printed-circuit board     relative repeat accuracy     1 %     product feature protective coating on printed-circuit board     relative repeat accuracy     1 %     product feature protective coating on printed-circuit board     finge     protect feature protective coating on printed-circuit board     finge     product feature protective coating on printed-circuit board     finge     protect feature protective coating on printed-circuit board     finge     product feature protective coating on printed-circuit board     finge     product feature protective coating on printed-circuit board     finge     protective of auxiliary contacts of overload     1     relative repeat of auxiliary contacts of overload     fitight     outhor prints     outhor of NC contacts of overload relay     according to U.     insultation voltage     (U)     with multi-phase operation at AC rated value     300 V     Enclosure     design of the housing     dustproof, waterproof & resistant to corrosion     Mounting/wiring     mounting position     Vertical     fightening torque [th-In] for supply     Sa - 38 ibrin     fightening torque [th-In] for supply     AL or CU     type of electrical connection for supply maximum     permissible     material of the conductor for load-side outgoing feeder     material of the conductor for load-side outgoing feeder     material of the conductor for	product function	
esymmetry detection     yes     ground fault detection     Yes     external reset     yes     insulationation of the current-     deprendent vertical release     insultance     relaty     number of NC contacts of auxiliary contacts of overload     relay     number of NC contacts of auxiliary contacts of overload     relay     insultance contacts of auxiliary contacts of overload     relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating of auxiliary contacts of overload relay     exact rating the housing     d	<ul> <li>overload protection</li> </ul>	Yes
• error fault detection       Yes         • test function       Yes         • external reset       Yes         reset function       Manual, automatic and remote         adjustable current response value current of the current-       10 40 A         dependent overhoad release       10 40 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       1         number of NC contacts of auxiliary contacts of overload       1         operational current of auxiliary contacts of overload relay       5 A         e at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       600 V         extract of auxiliary contacts of overload relay       600 V         extract of auxiliary contacts of overload relay       600 V         extract of auxiliary contacts of overload relay       600 V         extract or protection NEMA rating of the enclosure       Must Ax 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       Must Ax 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       Surface mounting and installation         Mounting/wiring       Yer of connectable conductor ros spections at line-side	<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         10 40 A           ifping time 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           • at DC at 250 V         5 A           • at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay         5000 V           • with single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         300 V           Enclosure         Mexintal Ax 304 stainless steel enclosure           design of the housing         Vertical           fastening method         Surface mounting and installation           Ype of electrical connection for supply voltage line-side         35 35 librin           type of connectable conductor for supply         <	<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         10 40 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           onotact at of auxiliary contacts of overload relay         5 Å           • at DC at 250 V         1 A           insulation voltage (Ui)         • with multi-phase operation at AC rated value           • 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           • autigroup         00 V           • autigroup         5 36 librin           featoare         Neanting/wiring           mounting position         Surface mounting and installation	<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       10 40 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coeling on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1 No         operational current of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       5 A         a ct 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)         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         300 V       2         Enclosuro       NEMA 4x 304 stainless steel enclosure         design of the housing       Surface mounting and installation         Mounting/wiring       Surface mounting and installation         Type of electrical connection for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side	test function	Yes
adjustable current response value current of the current- dependent overload release       10 40 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 exact Cat 260 V       1         orbert at Cat 600 V       5 A         • at DC at 250 V       1 A         contact reling of auxiliary contacts of overload relay according to UL       5 A         insultation voltage (Ui)       • With multi-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         design of the housing       Vertical         Mounting position       Surface mounting and installation         Sype of electrical connection for supply voltage line-side       35 35 libFin         type of electrical connection for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         Yep of electrical connection for load-side outgoing feeder       75 °C         temperature of the conductor for supply maximum permissible       75 °C	external reset	Yes
despendent overload release       3 s         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 250 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         insulation voltage (U)       600 V         • with single-phase operation at AC rated value       600 V         edgree of protection NEMA rating of the enclosure       000 V         degree of protection NEMA rating of the enclosure       dustproof, waterproof & resistant to corrosion         Mounting/wiring       Surface mounting and installation         type of electrical connectable conductor cross-sections at line-side       Screw-type terminals         tightening torque [Ibrin] for supply       35 °C         ype of electrical connectable conductor for supply maximum       75 °C         prediction for load-side outgoing feeder       35 ·	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       5 A         • 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       600 V         insulation voltage (Ui)       600 V         • with multi-phase operation at AC rated value       600 V         Berge of protection NEMA rating of the enclosure       Mustproof, waterproof & resistant to corrosion         Mounting/wiring       Mustproof, waterproof & resistant to corrosion         Mounting/wiring       Screw-type terminals         tightening torque [lbf-in] for supply       Vetr		10 40 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           • at DC at 250 V         5 A           • at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay according to UL         5 A           insultation voltage (Ui)         • with single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         600 V           Beclosure         00 V           degree of protection NEMA rating of the enclosure         NEMA 4x 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         Vertical           mounting position         Vertical           fastening method         Surface mounting and installation           type of concetable conductor for supply voltage line-side at AWG cables single or multi-stranded         35 35 lbFin           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         75 °C           type of electrical connection for load-side outgoing feeder         75 °C           t	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 exactly 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         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         degree of protection NEMA rating of the enclosure       000 V         fastening method       Yvertical         mounting /viring       Surface mounting and installation         Mounting/wiring       Surface mounting and installation         type of electrical connection for supply voltage line-side       Screw-type terminals         tightening torque [lbf:in] for supply       35 35 lbf:in         type of electrical connector for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       55 35 lbf:in         type of electrical connector for load-side outgoing feeder type of connectable conductor rons-sections at AVG cables for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder maximum permissible	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         ecrece of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       Vertical         mounting position       Screw-type terminals         tightening torque [IbF in] for supply voltage line-side       Screw-type terminals         type of connectable conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       35 35 IbF in         type of connectable conductor for supply       AL or CU         type of connectable conductor for supply       AL or CU	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         fastening method         type of electrical connection for supply voltage line-side         tightening torque [IbF in] for supply         type of connectable conductor for supply maximum         permissible         material of the conductor for supply maximum         tightening torque [IbF in] for load-side outgoing feeder         tightening trongue [IbF in] for lo		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       300 V         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       Vertical         fastening method       Surface mounting and installation       type of electrical connection for supply voltage line-side         tightening torque [lbf-in] for supply       35		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       300 V         Enclosure       Memory of the housing       Memory of the enclosure       00 V         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure       design of the housing         Mounting/wiring       mounting position       Vertical       Screw-type terminals         tightening progrue [bi-in] for supply voltage line-side       Screw-type terminals       1x (14 2 AWG)         tightening torque [bi-in] for supply       35 35 lbf in       1x (14 2 AWG)         thereared the conductor for supply maximum       75 °C       Screw-type terminals         permissible       Screw-type terminals       1x (14 2 AWG)         tightening torque [bi-in] for load-side outgoing feeder       35 35 lbf in       1x (14 2 AWG)         tightening torque [bi-in] for load-side outgoing feeder       35 35 lbf in       1x (14 2 AWG)         tightening torque [bi-in] for load-side outgoing feeder       35 35 lbf in       1x (14 2 AWG) <t< td=""><td>operational current of auxiliary contacts of overload relay</td><td></td></t<>	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         expression       800 V         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       Strace mounting and installation         type of connectable conductor for supply maximum       75 °C         material of the conductor for supply maximum       75 °C         type of connectable conductor rors-sections at AWG       Strade         type of connectable conductor for supply       AL or CU         type of connectable conductor rors-sections at AWG       Strade         temperature of the conductor for load-side outgoing feeder       35 35 lbfin         type of connectable conductor for load-side outgoing feeder       35 35 lbfin         type of connectable conductor for load-side outgoing feeder       1x (14 2 AWG)         temperature of the conductor for load-side outgoing feeder       35 .		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       MEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       Munting/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:n] for supply       35 35 lbf:in         type of connectable conductor ross-sections at line-side       1x (14 2 AWG)         at AWG cables single or multi-stranded       Screw-type terminals         tightening torque [lbf:n] for supply       AL or CU         type of electrical connection for load-side outgoing feeder       35 35 lbf:in         type of connectable conductor ross-sections at AWG cables for load-side outgoing feeder       1x (14 2 AWG)         temperature of the conductor rose sigle or multi-stranded       1x (14 2 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         maximum permissible       75 °C         maximum permissible       75 °C	● at DC at 250 V	1 A
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       MEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Mounting/wiring       mounting position         restrict       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       35 35 lbrin         type of electrical connection for supply not supply       35 35 lbrin         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (14 2 AWG)         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       35 35 lbrin         type of connectable conductor cross-sections at AWG cables single or multi-stranded       1x (14 2 AWG)         temperature of the conductor for load-side outgoing feeder       35 35 lbrin         type of connectable conductor for load-side outgoing feeder       35 35 lbrin         type of connectable conductor for load-side outgoing feeder       1x (14 2 AWG)         temperature of the conductor for loa		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     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 maximum     permissible     material of the conductor for load-side outgoing feeder     tightening torque [lbf-in] 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 connectable conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     maximum permissible     material of the conductor for load-side outgoing feeder     type of electrical connection of magnet coil     type of connectable conductor cross-sections at AWG     type of connectable conductor for load-side outgoing feeder     type of electrical connection of magnet coil     type of connectable conducto	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           restering method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Screw-type terminals           tightening torque [lbf-in] for supply         35 35 lbf-in           type of connectable conductor cross-sections at line-side         1x (14 2 AWG)           at AWG cables single or multi-stranded         Screw-type terminals           temperature of the conductor for supply         AL or CU           type of electrical connection for load-side outgoing feeder         35 35 lbf-in           tightening torque [lbf-in] for load-side outgoing feeder         35 35 lbf-in           type of connectable conductor ross-sections at AWG         1x (14 2 AWG)           cables for load-side outgoing feeder         35 35 lbf-in           type of electrical connection 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         AL or CU <t< td=""><td><ul> <li>with single-phase operation at AC rated value</li> </ul></td><td>600 V</td></t<>	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
degree of protection NEMA rating of the enclosureNEMA 4x 304 stainless steel enclosuredesign of the housingdustproof, waterproof & resistant to corrosionMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply35 35 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 permissibleAL or CUtype of electrical connectable conductor cross-sections at AWG cables for load-side outgoing feeder35 35 lbf-intype of connectable conductor for load-side outgoing feeder35 35 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Ctype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctype of electrical connection of magnet coil5crew-type terminalstightening torque [lbf-in] at magnet coil5crew-type terminalstightening torque [lbf-in] at magnet coil5crew-type terminalstightening torqu	<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       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       35 35 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       35 35 lbf-in         type of connectable conductor cross-sections at AWG cables outgoing feeder       35 35 lbf-in         type of electrical connection for load-side outgoing feeder       35 35 lbf-in         type of connectable conductor for supply       AL or CU         type of connectable conductor rorss-sections at AWG cables for load-side outgoing feeder       35 35 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       1x (14 2 AWG)         stranded       Tx (14 2 AWG)       1x (14 2 AWG)         tightening torque [lbf-in] at magnet coil       5 12 lbf-in	Enclosure	
design of the housing       dustproof, waterproof & resistant to corrosion         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       35 35 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       35 35 lbf-in         type of connectable conductor cross-sections at AWG cables outgoing feeder       35 35 lbf-in         type of electrical connection for load-side outgoing feeder       35 35 lbf-in         type of connectable conductor for supply       AL or CU         type of connectable conductor rorss-sections at AWG cables for load-side outgoing feeder       35 35 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       1x (14 2 AWG)         stranded       Tx (14 2 AWG)       1x (14 2 AWG)         tightening torque [lbf-in] at magnet coil       5 12 lbf-in	degree of protection NEMA rating of the enclosure	NEMA 4x 304 stainless steel 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         35 35 lbf·in           type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded         1x (14 2 AWG)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         Screw-type terminals           tightening torque [lbf·in] for load-side outgoing feeder         35 35 lbf·in           type of connectable conductor for supply         AL or CU           type of connectable conductor for load-side outgoing feeder         35 35 lbf·in           type of connectable conductor for load-side outgoing feeder         1x (14 2 AWG)           taxinded         1x (14 2 AWG)           temperature of the conductor for load-side outgoing feeder         35 35 lbf·in           type of connectable conductor for load-side outgoing feeder         1x (14 2 AWG)           taxinum permissible         1x (14 2 AWG)           material of the conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         75 °C <td></td> <td>dustproof, waterproof &amp; resistant to corrosion</td>		dustproof, waterproof & resistant to corrosion
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type of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf-in] for load-side outgoing feeder35 35 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2 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 coilAL or CUtype of electrical connection of magnet coil5 12 lbf-intightening torque [lbf-in] at magnet coil2x (16 12 AWG)	-	AL or CU
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type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded       1x (14 2 AWG)         temperature of the conductor for load-side outgoing feeder maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       AL or CU         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)		
maximum permissible         material of the conductor for load-side outgoing feeder         type of electrical connection of magnet coil         Screw-type terminals         tightening torque [lbf·in] at magnet coil         5 12 lbf·in         type of connectable conductor cross-sections of magnet         2x (16 12 AWG)	type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	
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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)		
	type of connectable conductor cross-sections of magnet	2x (16 12 AWG)

temperature of the conductor at magnet coil maximum permissible	75 °C		
material of the conductor at magnet coil	CU		
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals		
tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in		
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi- stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)		
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C		
material of the conductor at contactor for auxiliary contacts	CU		
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals		
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in		
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded	2x (20 14 AWG)		
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C		
material of the conductor at overload relay for auxiliary contacts	CU		
Short-circuit current rating			
design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)		
design of the short-circuit trip	Thermal magnetic circuit breaker		
breaking capacity maximum short-circuit current (Icu)			
• at 240 V	14 kA		
• at 480 V	10 kA		
• at 600 V	10 kA		
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14		
Further information			
Industrial Controls - Product Overview (Catalogs, Brochures,) www.usa.siemens.com/iccatalog Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:83DUE95WH Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:83DUE95WH Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)			
	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83DUE95WH⟨=en Certificates/approvals		

https://support.industry.siemens.com/cs/US/en/ps/US2:83DUE95WH/certificate

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