## SIEMENS

## Data sheet

## US2:84HUG95WMJ



Duplex starter w/o alternator, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 24VAC 50-60Hz coil, Combination type, Two 100A circuit breakers, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

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product brand name	Class 84		
design of the product	Duplex controller with two MCPs without alternator		
special product feature	ESP200 overload relay		
General technical data			
weight [lb]	106 lb		
Height x Width x Depth [in]	56 × 29 × 10 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	20 hp		
<ul> <li>at 220/230 V rated value</li> </ul>	25 hp		
• at 460/480 V rated value	50 hp		
• at 575/600 V rated value	50 hp		
Contactor			
size of contactor	NEMA controller size 3		
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	90 A		
mechanical service life (switching cycles) of the main contacts typical	500000		
Auxiliary contact			
number of NC contacts at contactor for auxiliary contacts	0		
number of NO contacts at contactor for auxiliary contacts	1		
number of total auxiliary contacts maximum	7		
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)		
Coil			
type of voltage of the control supply voltage	AC		
control supply voltage			

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• al AC at 00 Hz (rated value         24. 24 V           holding power af magnet coil at AC         310 VA           apparent holding power of magnet coil at AC         310 VA           apparent holding power of magnet coil at AC         30 VA           apparent holding power of magnet coil at AC         30 VA           apparent holding power of magnet coil at AC         30 VA           apparent holding power of magnet coil at AC         30 VA           apparent holding power of magnet coil at AC         30 VA           apparent holding power of magnet coil at AC         30 VA           operating targe factor contris supply voltage rated value         0.85 1.1           ON-delay time         26 41 me           OP-delay time         14 19 me           overload protection         Yes           opcrud fault delaction	at DC rated value	00V
Indiag power at AC minimum     14 W       apparent holding power of magnet coll at AC     20 VA       operating range factor control supply voltage rated value     0.8 1.1       of magnet coll at AC     20 VA       operating range factor control supply voltage rated value     0.8 1.1       of magnet coll at AC     20 VA       OP-F delay time     26 41 ms       OVFr delay time     14 18 ms       Overload protection     Yes       • approxent function     Yes       • overload protection     Yes       • ground fluid detection     Yes       • approxent function     Yes       • external reset     Yes       • external reset     Yes       • test function     Yes       • external reset     Yes       Iripolas     25 10 / 20 (factory set) / 30       adjustable current response value current of the current- dependent overload release     Yes       ripolaut faulty protective cating on printed-circuit back     Yes       number of NC contacts of auxiliary contacts of overload     1       relay     at Co at 250 V       • at Co at 250 V     5A       • a		
apperent plokup power of magnet coll at AC         26 VA           operange regulation control supply voltage rated value provential drop out voltage of magnet coll related to the input voltage.         0.85 1.1           provential drop out voltage of magnet coll related to the input voltage.         60 %           OH-delay time         26 41 ms           OVerticad rately         70 VA           provential drop out voltage of magnet coll related to the input voltage.         60 %           OVerticad rately         70 VA           product function         Yes           • overfoad rately         Yes           • overfoad protection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • asternal reset         Yes           • reset function         Yes           • reset function		
apparent holding power of magnet coil at AC         26 VA           operating magnet coil         0.65 1.1           of magnet coil         0.65 1.1           of magnet coil         0.65 1.1           of magnet coil         0.65 1.1           ON-delay time         26 41 ms           OFF-delay time         14 19 ms           Overload protection         Yes           • asymmetry detection         Yes           • ast function         Yes           • ast function         Yes           • ast function         CLASS 6 10 1/20 (tactory set) / 30           • adjustable current response value current of the current-dependent wendar detesse         1%           • product factury protective caling on printed-circuit board         1%           • at C at 250 V         5 A           • at C a		
operating range factor control supply voltage rated value of magnet coll         0.85 1.1           percental drop-out voltage of magnet coll related to the input voltage.         50 %           CM-delay time         26 41 ms           CPE-delay time         26 41 ms           Overload relay         product function           product function         Yes           • phase failure detection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • external reset         Yes           * external reset         Yes           * external reset         Yes           * external reset         Yes           * product feature detection         Yes           * external reset         Yes           * external reset         Yes           * external reset         Yes           * product feature acouncy         1 %           product feature protective coating on printed-circuit board         1           relative repeat acouncy         1 %           product feature of davallay contacts of overload relay         5 A           • at DC at 260 V         1 A           contacts of auxiliary contacts of overload relay         5 Agge00VAC (B800), 1Agg26VDC (R800) <tr< td=""><td></td><td></td></tr<>		
of magnet col       50 %         procental drop-out voltage of magnet coll related to the input voltage       50 %         ON-delay time       26 41 ms         OF-folday time       14 19 ms         Overload protection       Yes         • overload protection       Yes         • asymmetry detection       Yes         • asymmetry detection       Yes         • advantal factor       CLASS 57 10 / 20 (factory set) / 30         • advantal advantadvantal advantal advantal advantal advantal advantal		
input voltage         2641 ms           OF-Fidday time         2641 ms           OF-fidday time         1419 ms           Overload rolsy         9           product function         Yes           • overload protection         Yes           • asymmetry detection         Yes           • argound fault detection         Yes           • asymmetry detection         Yes           • test function         Yes           reset function         Yes           reset function         Yes           reset function         Yes           product feature protective coating on printed-circuit board         1           rumber of NC contacts of auxiliary contacts of overload         1           ready         • at A C at 600 V         5 A           • at A C at 600 V         5 A           • at C at 280 V         5 A           • at C C at 280 V         5 A </td <td></td> <td>0.00 1.1</td>		0.00 1.1
OF-Fedelay time     14 19 ms       Overload relay     Yes       • overload protection     Yes       • phase failure detection     Yes       • asymmetry detection     Yes       • external reset     Yes       • product feature protective coating on printed-circuit board     1       • mather of NC contacts of auxiliary contacts of overload     1       • ent OC at 260 V     1 A       contact raing of auxiliary contacts of overload relay     5 A       • at DC at 260 V     1 A       contact raing of auxiliary contacts of overload relay     5 A       • at DC at 260 V     1 A       contact raing of auxiliary contacts of overload relay     5 A       • at DC at 2		50 %
Overload Felay         Product function         Yes           • overload protection         Yes         •           • phase failure detection         Yes         •           • exernmetry detection         Yes         •           • exernmetry detection         Yes         •           • exernmetry detection         Yes         •           • external reset         Yes         •           • external reset         Yes         •           • adjustable current response value current of the current-         25 100 A         25 100 A           Itipping time at phase-loss maximum         3 s         •         1%           product feature protective coating on printed-dircuit board         1         •           relative repeat accuracy         1 %         Yes         •           number of NC contacts of auxiliary contacts of overload         1         1         •           relative repeat accuracy         1 %         Yes         •         •           orbit relating of auxiliary contacts of overload relay         •         1         •           outstartely explorate contacts of auxiliary contacts of overload relay         •         A         •           orbit relating of usuliary contacts of overload relay         •	ON-delay time	26 41 ms
product function         Yes           • overlaad protection         Yes           • phase failure detection         Yes           • asymmetry detection         Yes           • oround fault detection         Yes           • external reset         Yes           • reset function         Manual, automatic and remote           Itriping time at phase-loss maximum         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         1           rumber of NC contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         5A           • at DC at 250 V         5A           • at DC at 250 V         5A@600VAC (6600, 1A@250VDC (R300)           insuitation oxitage (UI)         • with single-phase operation at AC rated val	OFF-delay time	14 19 ms
• overlad protection     Yes     • phase failure detection     Yes     agymetry detection     Yes     ground fault detection     Yes     ves     external reset     Yes     ves     external reset     Yes     ves     external reset     Yes     ves     external reset     Yes     ves     ves     external reset     Yes     ves     v	Overload relay	
Phase failure detection     Yes     asymmetry detection     Yes     ground fault detection     Yes     ves     function     Yes     ves     isst function     Yes     ves     reset function     Yes     Yes     Thip is the aphase-loss maximum     3 s     relative repeat accuracy     1%     product feature protective coating on printed-circuit board     relay     router of NC contacts of auxiliary contacts of overload     relay     operational current of suxiliary contacts of overload     relay     eart AC at 600 V     s     s     at AC at 600 V     s     s     accoting of uxiliary contacts of overload relay     s     accoting of uxiliary contacts of overload relay     s     accoting of U     with single-phase operation at AC rated value     dood V     s     with single-phase operation at AC rated value     dood V     s     with single-phase operation at AC rated value     dood V     s     submetry of the housing     the housing     the outer of the outers     for	product function	
e saymmetry detection         Yes         erround fault detection         Yes         esternal reset         esternal reset         Yes         esternal         estores         esternal         estornal         esternal         est	<ul> <li>overload protection</li> </ul>	Yes
	<ul> <li>phase failure detection</li> </ul>	Yes
test function     Yes     vexternal reset     Vexternal		
• external reset         Yes           reset function         Manual, automatic and remote           trip class         CLASS 57 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent veryfoad release         25 100 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           relay         operational current of auxiliary contacts of overload relay         5 A           operational current of auxiliary contacts of overload relay         5 A           operational current of auxiliary contacts of overload relay         5 A@600VAC (B600), 1A@250VDC (R300)           externating of auxiliary contacts of overload relay         5 A@600VAC (B600), 1A@250VDC (R300)           insultation voltage (U)         600 V           with multi-phase operation at AC rated value         600 V           with multi-phase operation at AC rated value         600 V           eggres of protection NEMA rating of the enclosure         Matoria, waterproof & resistant to corrosion           Circuit Breaker         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         100 A <t< td=""><td>5</td><td></td></t<>	5	
reset function       Manual, automatic and remote         trip class       CLASS 5 / 10 / 20 (factory set) / 30         adjustable current response value current of the current- dependent overload release       25 100 Å         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %,         product feature protective coating on printed-clicul board       1 %,         number of NC contacts of auxiliary contacts of overload       1         relay       et at 600 V         et at C2 at 250 V       1 Å         contact rating of auxiliary contacts of overload relay       5 Å         exaccording to UL       5 A         insulation voltage (Ui)       600 V         evith single-phase operation at AC rated value       600 V         solo V       10         ettorspressore       300 V         Enclosure       Motor circuit protector (magnetic trip only)         operatorial current of motor circuit breaker rated value       300 V         Circuit Broaker       Vertical         Surface mounting and installation       Surface mounting and installation         type of othe motor protection       Motor circuit protector (magnetic trip only)         operatorial ses single or multi-stasted       100 A         alsabilitable current of motor circui		
trip class         CLASS 5 / 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent vertical contracts of auxiliary contacts of overload         25 100 A           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         Yes           number of NC contacts of auxiliary contacts of overload         1           relative repeat accuracy         1           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         5 A           • at A C at 600 V         5 A           • at C C at 250 V         1 A           contact rating of auxiliary contacts of overload relay         5A@@00VAC (B600), 1A@250VDC (R300)           according to UL         insulation voltage (Ui)           insulation voltage (Ui)         600 V           • with multi-phase operation at AC rated value         600 V           gree of protection NEMA rating of the enclosure         NEMA 4x 304 stainless steel enclosure           design of the housing         100 A           operational current of motor circuit breaker rated value         100 A           adjustable current response value current of instantaneous short-circuit trip unit         100 A           Mounting/winfing         315 1000 A </td <td></td> <td></td>		
adjustable current response value current of the current- dependent overload release       25 100 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay eaccording to UL       1         operational current of auxiliary contacts of overload relay eaccording to UL       5 A         ontact rating of auxiliary contacts of overload relay eaccording to UL       5 A         inisulation votage (UI)       600 V         with multi-phase operation at AC rated value       600 V         gegree of protection NEMA rating of the enclosure       600 V         degree of protection NEMA rating of the enclosure       600 V         degree of protection NEMA rating of the enclosure       600 V         design of the housing       000 V         operational current of motor circuit breaker rated value       300 V         finistantaneous short-circuit trip unit       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       Surface mounting and installation         Mounting/wring       Vertical       <		
dependent overload release       3 s         tripping time at phase-loss maximum       3 s         relative repretat 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         operational current of auxiliary contacts of overload relay       5 A         ot at CC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insultation vottage (UI)       600 V         with single-phase operation at AC rated value       300 V         Enclosure       MeXA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         adjustable current response value current of instantaeous short-circuit trip until         Mounting/wring       Vertical         mounting position       Surface mounting and installation         type of electrical connection for supply voltage line-side       Tx (10 AWG)         type of electrical connu	· ·	
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         number of NO contacts 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       5 A         insulation voltage (U)       • with single-phase operation at AC rated value         • with multi-phase operation at AC rated value       300 V         Enclosure       Motor circuit protection (magnetic trip only)         • degree of protection NEMA rating of the enclosure       Motor circuit protector (magnetic trip only)         • operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       15 1000 A         Mounting/wiring       Vertical         mounting position       Vertical         tasker able conductor for supply voltage line-side       10 A         vip of electrical connection for supply waltage line-side       10 A (10 AWG)         type of electrical connection for supply waltage line-side       10 A (10 AWG)         tasker       100 A       10 A	dependent overload release	
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         operational current of auxiliary contacts of overload relay       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         according to UL       5 A         insulation voltage (U)       600 V         • with multi-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         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         vpe of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       310 A         adjustable current sponse value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       Surface mounting and installation         type of electrical connection for supply voltage line-side       10x kug      <		
number of NC contacts of auxiliary contacts of overload relay       1         number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       5 A         • at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       300 V         Insulation voltage (Ui)       • with multi-phase operation at AC rated value       300 V         Enclosure       Motor circuit protector (magnetic trip only)       00 A         adjustable current response value current of instantaneous short-circuit breaker rated value       100 A       315 1000 A         Mounting/wring       Mounting/wring       1       1         mounting position       Vertical       Surface mounting and installation         type of electrical connection for supply voltage line-side       10 A Ari Ou AWG)         at AWG cable		1 %
relay       1         number of NO contacts of auxiliary contacts of overload relay       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         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       Mextmatch and a correst of waterproof & resistant to corrosion         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         adjustable current response value current of instantaneous short-circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       Surface mounting and installation         type of electrical connection for supply voltage line-side       1x (10 AWG 1/0 AWG)         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 supply maximum permissible       75 °C         material of the conductor for supply		
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         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         • with multi-phase operation at AC rated value         7         degree of protection NEMA rating of the enclosure         Mextman         0 per the motor protection         Operational current of motor circuit breaker rated value         100 A         adjustable current response value current of instantaneous short-circuit trip unit         Mounting/wiring         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Tx (10 AWG 1/0 AWG)         twype of connectable conduct		1
• at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       800 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         Circuit Breaker       100 A         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of onectable conductor ros 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 supply maximum permissible       Fox lug         itghtening torque [libf in] for load-side outgoing feeder       120 120 lbf-lin <td>relay</td> <td>1</td>	relay	1
• at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay according to UL         5A@600VAC (B600), 1A@250VDC (R300)           insulation voltage (U)         • with single-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V         300 V           Enclosure         • with multi-phase operation at AC rated value         300 V           degree of protection NEMA rating of the enclosure         dustproof, waterproof & resistant to corrosion           Circuit Breaker         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         100 A           adjustable current response value current of instantaneous short-circuit trip unit         315 1000 A           Mounting/wiring         mounting position           type of electrical connection for supply voltage line-side         Box lug           type of electrical connection for supply woltage line-side         Ix (10 AWG 1/0 AWG)           at AWG cables single or multi-stranded         TS °C           material of the conductor for supply maximum permissible         75 °C           material of the conductor for supply maximum perfisible         Box lug           tightening torque [librin] for load-side outgoing feeder         120 120 lbFin           type of connectable conductor rors-sections at I		
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       MEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         adjustable current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wring       mounting position         type of electrical connection for supply voltage line-side       Box lug         temperature of the conductor for supply voltage line-side       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply       AL or CU         temperature of the conductor for supply       Box lug         temperature of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       120 120 lbf-in         tightening torque [lbf-in] for load-side outgoing feeder       120 120 lbf-in         type of connectable conductor cross-sections at AWG cables or load-side outgoing feeder       120 120 lbf-in		
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       degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       MEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       Motor circuit protector & resistant to corrosion         Circuit Breaker       100 A         adjustable current response value current of instantaneous short-circuit breaker rated value       100 A         adjustable current response value current of fastening method       Surface mounting and installation         Mounting/wiring       Vertical         mounting position       Vertical         type of electrical connection for supply voltage line-side       Box lug         twG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       120 120 lbf-in         type of connectable conductor cross-sections at AVWG cables for load-side outgoing feeder       120 120 lbf-in         type of conductable conductor cross-sec		
• with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       0         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       315 1000 A         mounting position       Vertical         Isstantaneous short-circuit trip unit       Surface mounting and installation         Vpe of electrical connection for supply voltage line-side       Box lug         type of connectable conductor for supply maximum       75 °C         material of the conductor for supply maximum       75 °C         material of the conductor for supply maximum       Box lug         type of electrical connection for load-side outgoing feeder       Box lug         type of connectable conductor cross-sections at AWG       Lor CU         type of connectable conductor cross-sections at AWG       1x (14 2/0 AWG)         type o	according to UL	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     Circuit Breaker     type of the motor protection     Motor circuit protector (magnetic trip only)     operational current of motor circuit breaker rated value     100 A     adjustable current response value current of     instantaneous short-circuit trip unit     Mounting/wiring     mounting position     type of electrical connection for supply voltage line-side     type of electrical connection for supply maximum     permissible     material of the conductor for supply maximum     permissible     material of the conductor for supply     AL or CU     type of electrical connection for load-side outgoing feeder     type of connectable conductor cross-sections at AWG     cables or load-side outgoing feeder     type of connectable conductor cross-sections at AWG     is for load-side outgoing feeder     ix (14 2/0 AWG)		
Enclosure           degree of protection NEMA rating of the enclosure         NEMA 4x 304 stainless steel enclosure           design of the housing         dustproof, waterproof & resistant to corrosion           Circuit Breaker         100 A           adjustable current of motor circuit breaker rated value         100 A           adjustable current response value current of instantaneous short-circuit trip unit         315 1000 A           Mounting/wiring         mounting position         Vertical           fastening method         Surface mounting and installation           type of connectable conductor for supply voltage line-side at AWG cables single or multi-stranded         1x (10 AWG 1/0 AWG)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for supply         AL or CU           type of connectable conductor cross-sections at AWG cables or load-side outgoing feeder         120 120 lbf-in           type of connectable conductor cross-sections at AWG cables or load-side outgoing feeder         1x (14 2/0 AWG)		
degree of protection NEMA rating of the enclosureNEMA 4x 304 stainless steel enclosuredesign of the housingdustproof, waterproof & resistant to corrosionCircuit Breakertype of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value100 Aadjustable current response value current of instantaneous short-circuit trip unit315 1000 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side1x (10 AWG 1/0 AWG)at AWG cables single or multi-stranded75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder120 120 lbf-intype of load-side outgoing feeder single or multi-stranded120 120 lbf-intype of load-side outgoing feeder single or multi-stranded120 120 lbf-in		300 V
design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         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 (10 AWG 1/0 AWG)         material of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connectable conductor cross-sections at AWG cables for load-side outgoing feeder       120 120 lbf in         type of connectable conductor ross-sections at AWG cables for load-side outgoing feeder       1x (14 2/0 AWG)		
Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         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 (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connectable conductor cross-sections at AWG cables for load-side outgoing feeder       120 120 lbf-in         type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder       1x (14 2/0 AWG)		
type of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value100 Aadjustable current response value current of instantaneous short-circuit trip unit315 1000 AMounting/wiring315 1000 Amounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-strandedBox lugtemperature 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 feeder120 120 lbf-intype of connectable conductor cross-sections at XVG cables for load-side outgoing feeder120 120 kWG)	<u> </u>	dustproof, waterproof & resistant to corrosion
operational current of motor circuit breaker rated value100 Aadjustable current response value current of instantaneous short-circuit trip unit315 1000 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-strandedBox lugtype 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 feeder120 120 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)		
adjustable current response value current of instantaneous short-circuit trip unit315 1000 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-strandedBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)material 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 feederBox lugtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)		
Instantaneous short-circuit trip unitMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side1x (10 AWG 1/0 AWG)at AWG cables single or multi-stranded75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder120 120 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)		
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)	instantaneous short-circuit trip unit	315 1000 A
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)	Mounting/wiring	
type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-strandedBox lugtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)		
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 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 feederBox lugtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 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 feederBox lugtightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)		<b>.</b>
permissible       AL or CU         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf·in] for load-side outgoing feeder       120 120 lbf·in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded       1x (14 2/0 AWG)		1x (10 AWG 1/0 AWG)
type of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 AWG)	1 11 2	75 °C
tightening torque [lbf-in] for load-side outgoing feeder120 120 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x (14 2/0 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 1x (14 2/0 AWG)	type of electrical connection for load-side outgoing feeder	Box lug
cables for load-side outgoing feeder single or multi- stranded	tightening torque [lbf·in] for load-side outgoing feeder	120 120 lbf·in
temperature of the conductor for load-side outgoing feeder 75 °C	cables for load-side outgoing feeder single or multi-	1x (14 2/0 AWG)
	temperature of the conductor for load-side outgoing feeder	75 °C

maximum permissible				
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 coil at AWG cables single or multi-stranded	2x (16 12 AWG)			
temperature of the conductor at magnet coil maximum permissible	75 °C			
material of the conductor at magnet coil	CU			
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals			
tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in			
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi- stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)			
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C			
material of the conductor at contactor for auxiliary contacts	CU			
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals			
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in			
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded	2x (20 14 AWG)			
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C			
material of the conductor at overload relay for auxiliary contacts	CU			
Short-circuit current rating				
design of the short-circuit trip	Instantaneous trip circuit breaker			
breaking capacity maximum short-circuit current (Icu)				
• at 240 V	100 kA			
• at 480 V	100 kA			
• at 600 V	25 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=US2:84HUG95WMJ Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:84HUG95WMJ

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84HUG95WMJ&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84HUG95WMJ/certificate

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