## SIEMENS

## Data sheet

## US2:22HUG32BH



Reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

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	-				

product brand name	Class 22
design of the product	Full-voltage reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	39 lb
Height x Width x Depth [in]	25 × 14 × 9 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	25 hp
• at 220/230 V rated value	30 hp
• at 460/480 V rated value	50 hp
<ul> <li>at 575/600 V rated value</li> </ul>	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	

Indeling power at AC minimum         14 W           apparent Indeling power of magnet coil at AC         30 VA           operant Indeling power of magnet coil at AC         28 VA           operant Indeling power of magnet coil at AC         28 VA           operant Indeling power of magnet coil at AC         28 VA           operant Indeling power of magnet coil related to the Input violage         26 ··· 1.1           Orderbays time         24 ··· 41 ms           Orderbays time         24 ··· 41 ms           Orderbays time         24 ··· 41 ms           Overload protection         Yes           • overload protection         Yes           • overload protection         Yes           • overload protection         Yes           • overload relase         Yes           • overload protection         Yes           • overload relase         1 ···           • overload relase         1 ···           • overload relase         0 ···           • overload relase         0 ···           • overload relase         1 ···	<ul> <li>at AC at 50 Hz rated value</li> </ul>	380 440 V
apparent holding power of magnet coll at AC         310 VA           apparent holding power of magnet coll at AC         20 VA           operand at date control supply voltage rated value         0.85 1.1           percential stop-but voltage of magnet coll related to the phyth voltage         0.85 1.1           percential stop-but voltage of magnet coll related to the phyth voltage         0.85 1.1           OPF-delay time         26 41 ms           OFF-delay time         14 19 ms           Oversidal drug         Yes           eigendaptic startent         Yes           eigendaptic durits         Yes           eigendaptic startent         Yes           eiset function         Yes           resef function         Yes           resef function         Yes           relative detection         Yes           resef function         Yes           resef function <td></td> <td></td>		
apparent holding power of magnet coil a AC         26 VA           operating range locie control supply voltage rated value         0.85 1.1           of magnet coil         0.85 1.1           operating range locie control supply voltage rated value         0.85 1.1           Ort-diagitime         28 41 ms           OFF-detay time         14 19 ms           Overload protection         Yes           • symmetry detection         Yes           • ground frame         Cals S / 10 / 20 (lackry sel) / 30           adjustable current of auxiliary contacts of overload relay         1 %.           product fraiture protective coating on print		
operational grange factor control supply voltage rated value of magnet coll         0.85 1.1           operatinal drop-out voltage of magnet coll related to the input voltage         50 %           ON-delay time         26 41 ms           OPEr-delay time         14 19 ms           Overload relay         me           product function         Yas           • overload protection         Yas           • overload protection         Yas           • asymmetry detection         Yas           • est function         Yas           • relative repeat accuracy         1 %.		
of magnit coil     50 %       input voltage     50 %       OV-delay time     14 19 ms       OV-delay time     14 19 ms       Overload protection     Yes       • vortical protection     Yes       • symmetry detection     Yes       • esterial reset     Yes       • esterial reset     Yes       • adjustable current response value current of the current     25 100 A       reset function     Yes       reset function     25 100 A       reset function     26 100 A       reset function     26 100 A       reset function     27 100 A       reset function     28 100 A		
inpl         Voltage           OH-delay line         26 41 ms           OPF-delay line         14 19 ms           Overload relay         Product Incion           • overload protection         Yes           • overload protection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • ast function         Warnal, automatic and remote           Trip class         CLASS 5 / 10 / 20 (factory set) / 30           elustable current response value current of the current-dependent overload release         25 100 A           read function         Marnal, automatic and remote         25 100 A           read function         Marnal, automatic stard after power failure         3 s           relative repeat accuracy         1 %.         1           product foature protective coaling on prited-circuit bacad         1           relative repeat accuracy         5 A         1           optat acting of auxiliary contacts of overload relay         5 A         1           optat acting of auxiliary contacts of overload relay         5 A         1           optat acting of auxiliary contacts of overload relay         5 A         1           outact ca		0.85 1.1
OFF-delay time     14 19 ms       Overfoad ratay     Yes       • overfoad protection     Yes       • ophase fullwe detection     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • external reset     Se       • fig class     CLASS 5 / 10 / 20 (factory set) / 30       adjustable current response value current of the current-     dependent overfoad release       make time with automatic start after power failure     3 s       • relative repeat accuracy     1 %.       product feature protective coating on printed-circuit board     1       • at DC at 250 V     5 Å       • at DC at 250 V     5 Å       • at DC at 250 V     5 Å       • with multi-phase operation at AC rated value     600 V       • with multi-phase operation at AC rated value     600 V       • with multi-phase operation at AC rated value     75 °C       restriction     Surface mounting and installation       type of detection lor supply voltage line-side     10. (120 bin       type of detection connection for supply maximum     75 °C       Pype of detec		50 %
Overload relay           product function           • overload protection           • phase failure detection           • asymmetry detection           • esternal reset           • esternal reset           Yes           external reset           ing dass           current response value current of the current- dependent overdoar release           reset function           reset function           refact the with automatic start after power failure maximum           refact the with automatic start after power failure maximum           refact the repeat accuracy           refact the repeat accuracy           refact repeat accuracy           refact repeat accuracy           operational current of auxiliary contacts of overload relay           • at Oc at 250 V           • at Oc at 250 V           • at Oc at 250 V           • with single-phase operation at AC rated value           oottot criting of protection NEMA rating           design of the housing           Mounting wring           mounting position           Yeer identical connection for supply voltage line-side tightening torque [bfn] for supply with a maximum permissible           Yee of connectable conductor rose-sections at line-side at AVC at atorde rolues singe or multistrated	ON-delay time	26 41 ms
product function     Yes       • overload protection     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • estant duit detection     Yes       • estant astel     Yes       reset function     Yes       the function     Yes       reset function     CLASS 6 / 10 / 20 (factory set) / 30       adjustable current response value current of the current-     25 100 A       dependent vertoad release     1%       product feature protective coating on printed-circuit board     1       number of NC contacts of auxiliary contacts of overload     1       reletive repeat accuracy     1%       product feature protective coating on printed-circuit board     1       outrot at ang of auxiliary contacts of overload relay     1       octract ang of auxiliary contacts of overload relay     5A       according to U.     5A@@00VAC (B600), 1A@250VDC (R300)       insulation voltage (U)     600 V       • with multi-phase operation at AC rated value     500 V       fate stering method     Surface mounting and installation       type of decircuit connection for supply voltage line-side     1x (14 20 AWG)       type of decircuit connection for supply maximum     75 °C       material of the conductor for lead-side outgoi	OFF-delay time	14 19 ms
voerload protection     Ves     voerload protection     Yes     asymmetry detection     Yes     agymetry detection     Yes     ves     ground fault detection     Yes     ves     ves	Overload relay	
Phase failure detection     Yes     asymmetry detection     Yes     aground fail detection     Yes     acternal fail detection     Yes     test function     Yes     acternal freat     Yes     reset function     Yes     acternal reset     Yes     Yes     reset function     Yes     acternal reset     Yes     Yes     reset function     Yes     Yes     Yes     reset function     Yes     Yes     Yes     reset function     Yes     Yes     Yes     Yes     Testify     reset function     Yes     Yo     Yes     Yes     Yes     Yo     Yes     Yes	product function	
esymmetry detection     Yes     yes     yes     external reset     Yes     ves     external reset     Yes     ves     external reset     Yes     Yes     ves     external reset     Yes     Yes     ves     ves	<ul> <li>overload protection</li> </ul>	Yes
• ground fault detection     Yes       • test function     Yes       reset function     Manual, automatic and remote       itp class     CLASS 5/ 10 / 20 (factory set) / 30       adjustable current response value current of the current-     25 100 A       dependent overload release     3 s       make time with automatic stat after power failure     3 s       make time with automatic stat after power failure     3 s       make time with automatic stat after power failure     3 s       maximum     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     5 Å       operational current of auxiliary contacts of overload relay     1       operational current of auxiliary contacts of overload relay     5 Å       e at DC at 250 V     1 Å       oratat rating of auxiliary contacts of overload relay     5 Å       e with multi-phase operation at AC rated value     600 V       with multi-phase operation at AC rated value     600 V       with multi-phase operation at AC rated value     500 V       with multi-phase operation at AC rated value     700 Criticae mounting and installation       fastering method     Surface mounting and installation       fastering method <t< td=""><td><ul> <li>phase failure detection</li> </ul></td><td>Yes</td></t<>	<ul> <li>phase failure detection</li> </ul>	Yes
	<ul> <li>asymmetry detection</li> </ul>	Yes
• external reset         Yes           reset function         Manual, automatic and remote         Manual, automatic and remote           adjustable current response value current of the current- dependent overload release         25 100 A           make time with automatic start after power failure maximum         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board relay         Yes           number of NO contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         5 A           • at DC at 250 V         5 A           • at DC at 250 V         5 A           • at DC at 250 V         5 A           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         300 V           Enclosure         600 V           design of the housing         1           mounting position         Verical           fastening method         Surface mounting and installation           type of connectable conductor ross-sections at line-side at AWG cables single or multi-stranded         1x (1 20 AWG)           type of connectable conductor for supply         <	<ul> <li>ground fault detection</li> </ul>	Yes
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 A         make time with automatic start after power failure 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 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 e at AC at 500 V       5 A         otat 250 V       1 A         contact rating of auxiliary contacts of overload relay ecording to U.       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (UI)       600 V         with single-phase operation at AC rated value       600 V         overload of the housing       1         mounting position       32 a         fastering method       Surface mounting and installation         type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded       100 120 lbrin         type of electrical connection for supply maximum permissible       75 °C	test function	Yes
trip class         CLASS 5 / 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent overload release         25 100 A           make time with automatic start after power failure 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           operation of NO contacts of auxiliary contacts of overload relay eacording to 2L.         5 A           ontact ation of auxiliary contacts of overload relay according to UL.         5 A           insulation voltage (UI)         5 A           • 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         500 V           • with multi-phase operation at AC rated value         500 V           indoors, usable on a general basis         Mounting/Wring           mounting position         Vertical           Ispletning torque [Ib/in] for supply         120 120 Ib/in           type of connectable conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         120 120 Ib/in           type of electrical connect	external reset	Yes
trip class       CLASS 5 / 10 / 20 (factory set) / 30         adjustable current response value current of the current-dependent overload release       25 100 A         make time with automatic start after power failure 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       5 A         a th C at 250 V       1 A         contact raing of auxiliary contacts of overload relay       500 V         according to UL       500 V         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       300 V         Enclosure       600 V         degree of protection NEMA rating       1         degree of protection NEMA rating       1         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       10 Vertical         tatWore cables single or multi-straided       10 CU         type of electrical connection for supply maximum permissible       75 °C         ma	reset function	Manual, automatic and remote
adjustble current response value current of the current.       25 100 Å         dependent overload release       3 s         make time with automatic start after power failure 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 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       5A@@600VAC (B600), 1A@250VDC (R300)         according to UL       500 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       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at Carated value       600 V         • with multi-phase operation at AC rated value       70         • degree of protection NEMA rating       1         <	trip class	
maximum       relative repeat accuracy       1 %         product feature protective coating on printed-circuit boad       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1         operational current of auxiliary contacts of overload relay       1         e at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       500 V         according to UL       5 A         insulation voltage (Ui)       500 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         edegree of protection NEMA rating       1         degree of protection NEMA rating       1         degree of protection NEMA rating       1         degree of protection for supply voltage line-side       Box lug         Mounting voition       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tghtening torque [bf-in] for supply       120 lbf-in         type of electrical connection for supply maximum       Fo °C         permissible       matti-stranded         temperature of the conductor for load-side outgoing feeder <td< td=""><td></td><td>25 100 A</td></td<>		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         relay       1         operational current of auxiliary contacts of overload relay       1         • at AC at 600 V       5 A         • at BC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       5A@600VAC (B600), 1A@250VDC (R300)         according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (UI)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V       300 V <b>Beclosure</b>	make time with automatic start after power failure	3 s
product feature protective coaling on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1         number of NC contacts of auxiliary contacts of overload       1         relay       1         operational current of auxiliary contacts of overload relay       1         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       5A         according to UL       5A@600VAC (B600), 1A@250VDC (R300)         according to UL       600 V         • 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       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       800 V         featering method       Surface mounting and installation         Vpe of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply maximum       75 °C         per ellectrical connection for supply maximum       75 °C         per ellectrical connection for supply maximum       75 °C		1 %
number of NC contacts of auxiliary contacts of overload relay       1         number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       1         e at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to U       5A         insulation voltage (Ui)       • with single-phase operation at AC rated value         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       300 V         Enclosure       600 V         design of the housing       1         Mounting/wiring       1         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       1x (14 2/0 AWG)         at AWG cables single or multi-stranded       Box lug         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       120 120 IbFin         type of connectable conductor for load-side outgoing feeder       120 120 IbFin         type of connectable conductor for sapply maximum permissible       100 120 IbFin         type of connectable conductor for load-side outgoing feeder </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td>Yes</td>	· · · · · · · · · · · · · · · · · · ·	Yes
relay       1         operational current 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 AC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       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       1         degree of protection on resupply voltage line-side       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       120 120 lbf-in         type of connectable conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder </td <td></td> <td>1</td>		1
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 (U)         • with single-phase operation at AC rated value         • with multi-phase operation at AC rated value         • with multi-phase operation at AC rated value         600 V         300 V         Enclosure         degree of protection NEMA rating         1         design of the housing         mounting position         fastening method         type of electrical connection for supply voltage line-side         Box lug         tightening torque [Ibf in] for supply         type of connectable conductor for supply maximum permissible         material of the conductor for supply         type of electrical connection for load-side outgoing feeder         type of elec	•	
• at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       600 V       300 V         degree of protection NEMA rating       1         design of the housing       Indoors, usable on a general basis         Mounting/wiring       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         it ghtening torque [IbF in] for supply       14 2/0 AWG)         type of connectable conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       Box lug         tightening torque [IbF in] to load-side outgoing feeder       12 120 IbF in         type of connectable conductor ros-sections at AWG       20 120 IbF in         tightening torque [IbF in] for load-side outgoing feeder       20 120 IbF in         type of electrical connection for load-side outgoing feeder       20 120 IbF in         type of electrical connection for load-side outgoing feeder       20 120		1
• at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V       300 V         Enclosure	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         egree of protection NEMA rating       1         degree of protection NEMA rating       1         mounting/wiring       indoors, usable on a general basis         Mounting/wiring       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       120 120 lbf-in         type of connectable conductor cross-sections at line-side at AWC cables single or multi-stranded       Ts °C         material 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 electrical conductor cross-sections at AWG cables for loo role-side outgoing feeder       120 120 lbf-in         type of electrical connection for load-side outgoing feeder       120 120 lbf-in         type of electrical connection for load-side outgoing feeder       120 120 AWG)         temperature	• at AC at 600 V	5 A
according to UL     According to Uk       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     1       design of the housing     indoors, usable on a general basis       Mounting/wiring     mounting position       Ype of electrical connection for supply voltage line-side     Box lug       tightening torque [lbf in] for supply     120 120 lbf-in       type of connectable conductor cross-sections at line-side     1x (14 2/0 AWG)       at AWG cables single or multi-stranded     Box lug       tightening torque [lbf in] for supply     AL or CU       type of connectable conductor for supply maximum     75 °C       primissible     1x (14 2/0 AWG)       tightening torque [lbf in] for load-side outgoing feeder     120 120 lbf-in       type of connectable conductor for supply maximum     75 °C       permissible     75 °C       material of the conductor for load-side outgoing feeder     120 120 lbf-in       type of ibed-side outgoing feeder     75 °C       tightening torque [lbf-in] for load-side outgoing feeder     75 °C       tightening torque [lbf-in] at magnet coil     Screw-type terminals       tightening torque [lbf-in] at magnet coil     Screw-type terminals <td>• at DC at 250 V</td> <td>1 A</td>	• at DC at 250 V	1 A
<ul> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> <li>300 V</li> <li>Enclosure</li> <li>degree of protection NEMA rating</li> <li>1</li> <li>design of the housing</li> <li>indoors, usable on a general basis</li> <li>Mounting/wiring</li> <li>mounting position</li> <li>Vertical</li> <li>fastening method</li> <li>Surface mounting and installation</li> <li>type of electrical connection for supply voltage line-side</li> <li>Box lug</li> <li>tightening torque [lbFin] for supply</li> <li>120 120 lbFin</li> <li>type of connectable conductor cross-sections at line-side</li> <li>tax (14 2/0 AWG)</li> </ul>		5A@600VAC (B600), 1A@250VDC (R300)
• with multi-phase operation at AC rated value       300 V         Enclosure	insulation voltage (Ui)	
• with multi-phase operation at AC rated value       300 V         Enclosure	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
degree of protection NEMA rating1design of the housingindoors, usable on a general basisMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf:in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side1x (14 2/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder120 120 lbf-intype of connectable conductor for supplyAL or CUmaterial of the conductor for supply1x (14 2/0 AWG)tightening torque [lbf in] for load-side outgoing feeder120 120 lbf-intype of connectable conductor ross-sections at AWG1x (14 2/0 AWG)temperature of the conductor for load-side outgoing feeder120 120 lbf-intype of electrical connection for load-side outgoing feeder120 120 lbf-intype of connectable conductor rorss-sections at AWG1x (14 2/0 AWG)cables for load-side outgoing feeder75 °Cmaterial 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 feeder1x (14 2/0 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cma		300 V
design of the housing       indoors, usable on a general basis         Mounting/wiring       mounting position         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       120 120 lbf-in         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (14 2/0 AWG)         material of the conductor for supply       AL or CU         type of electrical connectable conductor cross-sections at AWG       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       Box lug         tightening torque [lbf-in] 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       1x (14 2/0 AWG)         cables for load-side outgoing feeder       120 120 lbf-in         type of connectable conductor for load-side outgoing feeder       1x (14 2/0 AWG)         cables for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C	Enclosure	
design of the housing       indoors, usable on a general basis         Mounting/wiring       mounting position         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       120 120 lbf-in         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (14 2/0 AWG)         material of the conductor for supply       AL or CU         type of electrical connectable conductor cross-sections at AWG       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       Box lug         tightening torque [lbf-in] 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       1x (14 2/0 AWG)         cables for load-side outgoing feeder       120 120 lbf-in         type of connectable conductor for load-side outgoing feeder       1x (14 2/0 AWG)         cables for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C		1
Mounting/wiring           mounting position         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Box lug           tightening torque [lbf-in] for supply         120 120 lbf-in           type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded         1x (14 2/0 AWG)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         Box lug           tightening torque [lbf-in] for load-side outgoing feeder         120 120 lbf-in           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         120 120 lbf-in           type of the conductor for load-side outgoing feeder         1x (14 2/0 AWG)           temperature of the conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         1x (14 2/0 AWG)           temperature of the conductor for load-side outgoing feeder         75 °C           materi		
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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)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 CUtightening torque [lbf-in] at magnet coil5 12 lbf-in		
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)         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 at AWG cables for load-side outgoing feeder single or multi-stranded       1x (14 2/0 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		
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maximum permissible     AL or CU       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	cables for load-side outgoing feeder single or multi-	
type of electrical connection of magnet coil       Screw-type terminals         tightening torque [lbf·in] at magnet coil       5 12 lbf·in		75 °C
tightening torque [lbf·in] at magnet coil 5 12 lbf·in	material of the conductor for load-side outgoing feeder	AL or CU
		Screw-type terminals
type of connectable conductor cross-sections of magnet 2x (16 12 AWG)	tightening torque [lbf-in] at magnet coil	5 12 lbf·in
	type of connectable conductor cross-sections of magnet	2x (16 12 AWG)

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coil at AWG cables single or multi-stranded	
temperature of the conductor at magnet coil maximum permissible	75 °C
material of the conductor at magnet coil	CU
type of electrical connection 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	none
design of the short-circuit trip	none
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	0 kA
• at 480 V	0 kA
• at 600 V	0 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

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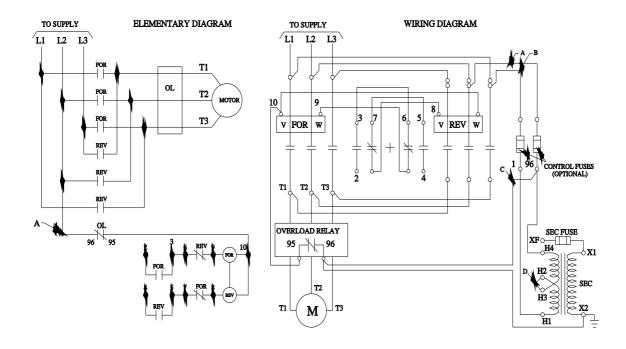
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