## SIEMENS

## Data sheet

## 3RW5548-6HA14



SIRIUS soft starter 200-480 V 570 A, 110-250 V AC Screw terminals

CLASS 10
CLASS 10
CLASS 10
CLASS 10

accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
recovery time after overload trip adjustable	60 1 800 s
buffering time in the event of power failure	
<ul> <li>for main current circuit</li> </ul>	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between main and auxiliary circuit</li> </ul>	480 V; does not apply for thermistor connection
utilization category acc. to IEC 60947-4-2	AC 53a
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
VIDIALIOITTESISLATICE	13 mm up to 6 mz, z g up to 500 mz
reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)	Q 15.02.2018 00:00:00 Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • inside-delta circuit         • auto-RESET         • manual RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • motor RESET         • manual RESET         • remote reset	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • motor RESET         • manual RESET         • remote reset         • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • motor eletta circuit         • auto-RESET         • remote reset         • communication function         • operating measured value display         • event list	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • auto-RESET         • manual RESET         • remote reset         • communication function         • operating measured value display         • event list         • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function <ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> <li>DC braking</li> <li>motor heating</li> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> </ul> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li>	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • auto-RESET         • manual RESET         • remote reset         • communication function         • operating measured value display         • event list         • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes

<ul> <li>spring-type terminal</li> </ul>	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-
	Feature communication modules
<ul> <li>firmware update</li> </ul>	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
<ul> <li>voltage ramp</li> </ul>	Yes
torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
reversing operation	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	570 A
• at 40 °C rated value minimum	114 A
• at 50 °C rated value	504 A
• at 60 °C rated value	460 A
operational current at inside-delta circuit	
• at 40 °C rated value	987 A
• at 50 °C rated value	873 A
• at 60 °C rated value	796 A
operating voltage	
rated value	200 480 V
<ul> <li>at inside-delta circuit rated value</li> </ul>	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	160 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	315 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	315 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	560 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	171 W
• at 50 °C after startup	151 W
at 60 °C after startup	141 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	10 229 W
• at 50 °C during startup	8 488 W
at 60 °C during startup	7 651 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V

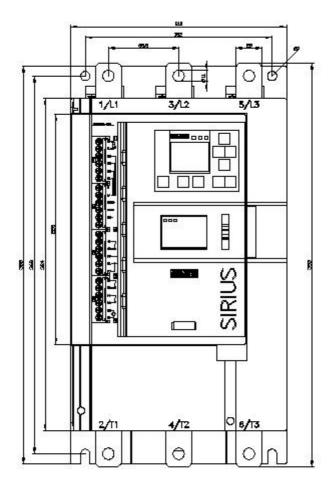
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	150 mA
locked-rotor current at close of bypass contact maximum	0.87 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
<ul> <li>downwards</li> </ul>	75 mm
• at the side	5 mm
weight without packaging	10.9 kg
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m

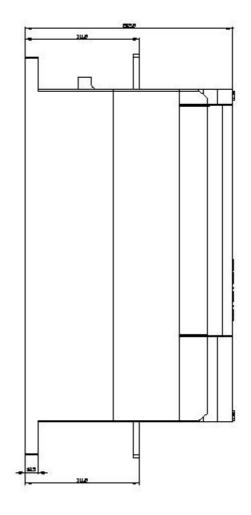
installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       -40 +80 °C         • during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage acc. to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         eMC emitted interference       acc. to IEC 60947-4-2: Class A         Communication module is supported       Yes         • PROFINET standard       Yes         • PROFINET high-feature       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes		
	type of connectable conductor cross-sections	
type of connectable conductor cross-sections         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           i for control circuit finely standed with core end processing         1x (0.5 4.0 mm²), 2x (0.5 15 mm²)           i at AVC cables for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 15 mm²)           i edvess soft statter and motor maximum         800 m           i edvess soft statter and motor maximum         800 m           i or main contacts with screw-type terminals         14 24 Nm           i or nain contacts with screw-type terminals         14 210 lbr in           i or auxliary and control contacts with screw-type terminals         5.000 m; Derating as of 1000 m, see catalog           ethring sprage and transport	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
		2x (70 240 mm²)
A WG cables for control circuit nell solid     A WG cables for control circuit solid     A wG cables for control wG cables     A wG cables for wG cables     A wG cables for wG cables     A wG cables for wG cables     A wG cab	type of connectable conductor cross-sections	
processing         = K-WC cables for control circuit solid         1x (20 12), 2x (20 14)           wire length         800 m           • between soft slatter and motor maximum         800 m           • at the digital inputs at DC maximum         1000 m           • for main contrads with screw-type terminals         0 12 N m           • for main control contacts with screw-type terminals         0.8 12 N m           • for main contacts with screw-type terminals         7 10.3 lbfin           • for main contacts with screw-type terminals         5.000 m; Derating as of 1000 m, see catalog           • for main contacts with screw-type terminals         5.000 m; Derating as of 1000 m, see catalog           • during operation         5.000 m; Derating as of 1000 m, see catalog           • during operation         5.000 m; Derating as of 1000 m, see catalog           • during operation         5.000 m; Derating as of 1000 m, see catalog           • during operation         5.000 m; Derating as of 1000 m, see catalog           • during operation acc. to IEC 60721         36G (not is comation, only occasional contenestion), 3C3 (no salt mit), 352 (sand must not get into the devices), 3MB           • during transport acc. to IEC 60721         242, 123, 12M (ram, tall height 0.3 m)           • during transport acc. to IEC 60721         245, 12M (ram, tall height 0.3 m)           • during transport acc. to IEC 60721	<ul> <li>for control circuit solid</li> </ul>	
wire length         Bothween soft starter and motor maximum         Bothween soft starter and motor maximum                et the digital inputs at DC maximum         1000 m                tor main contrates with screw-type terminals             et or auxilary and control contacts with screw-type terminals             for auxilary and control contacts with screw-type             ferninals             for auxilary and transport             full and transport             full and transport             full and transport             full and transport	· · · · · · · · · · · · · · · · · · ·	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
	<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
	wire length	
tightening torque         1424 N m           • for main contacts with screw-type terminals         081.2 N m           • for main contacts with screw-type terminals         081.2 N m           • for main contacts with screw-type terminals         124210 lbf:in           • for main contacts with screw-type terminals         124210 lbf:in           • for main contacts with screw-type terminals         5000 m; Derating as of 1000 m, see catalog           • anbent control contacts with screw-type         - 5000 m; Derating as of 1000 m, see catalog           • anbent control contacts with screw-type         - 600 m; Derating as of 1000 m, see catalog           • during storage and transport         - 400 "C. Please observe derating at temperatures of 40 "C or above           • during storage and transport         - 40 480 "C. Please observe derating at temperatures of 40 "C or above           • during storage acc. to IEC 60721         3K6 (no lo formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6           • during transport acc. to IEC 60721         TK6 (noil y occasional condensation), 1C2 (no salt mist), IS2 (sand must not get into the devices), 3M6           • during transport acc. to IEC 60721         Yes           • FROFINET standard         Yes           • FROFINET standard         Yes           • FROFINET high-feature         Yes           • FROFINET standard<	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
• for main contacts with screw-type terminals       14 24 k m         • for main contacts with screw-type terminals       0.8 1.2 k m         • for main contacts with screw-type terminals       0.8 1.2 k m         • for main contacts with screw-type terminals       7 10.3 lbf-in         • for main contacts with screw-type terminals       7 10.3 lbf-in         • for main contacts with screw-type terminals       5.000 m; Derating as of 1000 m; see catalog         • during storage and transport       -4.0 +60 °C         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         • during storage and transport       -40 +80 °C         • during storage acc. to IEC 60721       3K6 (no loe formation; only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage acc. to IEC 60721       2K2, 2C1, 2S1, X21, X21, X21, X21, X21, X21, X21, X2	<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
• for auxiliary and control c	tightening torque	
tightening torque [IbFin]         • for main contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • for auxilary and control contacts with screw-type terminals         • during strage and transport       -25 +60 °C.         • during transport acc. to IEC 60721       3K6 (no) ter formation, only occasional condensation), 3G3 (no salt miss), 3S2 (and must not opt into the devices), 3M6         • during transport acc. to IEC 60721       2KC 2C1, 2S1, X12, X2 (max fait height 0.3 m)         • during transport acc. to IEC 60721       2KC 2C1, 2S1, X12, X2 (max fait height 0.3 m)         • Communication module is supported       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFINET standrad	<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
<ul> <li>for main contacts with screw-type terminals         <ul> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> </li> <li>Installation altitude at height above sea level maximum         <ul> <li>ambient tomperature</li> <li>during operation</li> <li>during operation acts to IEC 60721</li> <li>during storage and transport</li> <li>during storage acc. to IEC 60721</li> </ul> <ul> <li>during transport acc. to IEC 60721</li> <li>durit 60 (Net C</li></ul></li></ul>		0.8 1.2 N·m
for auxiliary and control contacts with screw-type immais              Ambient conditions             installation altitude at height above sea level maximum             ambient temperature             • during operation             • during operation             • during operation acc. to IEC 60721             • during operation acc. to IEC 60721             • during operation acc. to IEC 60721             • during storage acc. to IEC 60721             • during operation acc. to IEC 60721             • during transport acc. to IEC 60721             • during transpo	tightening torque [lbf·in]	
terminals       Amblent conditions         Installation attilude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       - 40 + 60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 + 80 °C         environmental category       -40 ining operation acc. to IEC 60721       -46 °C; Please observe derating at temperatures of 40 °C or above         • during storage acc. to IEC 60721       -46 °C; Please observe derating at temperatures of 40 °C or above         • during storage acc. to IEC 60721       -25 + 60 °C; Please observe derating at temperatures of 40 °C or above         • during storage acc. to IEC 60721       24 C2, 221, 251, 221, 202 (max, fail height 0.3 m)         • during transport acc. to IEC 60721       24 C2, 221, 221, 221, 221, 221, 221, 221,	<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in
Installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       - during storage and transport         - during storage and transport       -40 +80 °C         environmental category       - during storage act. to IEC 60721         - during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. Ial height 0.3 m)         EMC emitted interference       acc. to IEC 60947.4-2: Class A         Communication/ Protocol       acc. to IEC 60947.4-2: Class A         Communication module is supported       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • Or the fuse       Yes         - usable for Standard Faults up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for High Faults at inside-delta circuit up to 575/6		7 10.3 lbf·in
Installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       - during storage and transport         - during storage and transport       -40 +80 °C         environmental category       - during storage act. to IEC 60721         - during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. Ial height 0.3 m)         EMC emitted interference       acc. to IEC 60947.4-2: Class A         Communication/ Protocol       acc. to IEC 60947.4-2: Class A         Communication module is supported       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • Or the fuse       Yes         - usable for Standard Faults up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for High Faults at inside-delta circuit up to 575/6	Ambient conditions	
amblent temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -26 +80 °C         • during storage and transport       -40 +80 °C         • during storage and transport       -40 +80 °C         • during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get instite devices), 3M6         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         • Communication/ Protocol       acc. to IEC 60947-4-2; Class A         Communication/ Protocol       Communication/ Protocol         Communication module is supported       Yes         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Ditto PROFINET standard       Yes         • UL/CSA ratings       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults up to 575/600 V       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL.       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL.       Type: Class J / L, max. 1		5 000 m; Derating as of 1000 m, see catalog
<ul> <li>during operation</li> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>during storage and transport</li> <li>40 +80 °C</li> <li>environmental category</li> <li>during operation acc. to IEC 60721</li> <li>M6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>during storage acc. to IEC 60721</li> <li>K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>during transport acc. to IEC 60721</li> <li>K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>during transport acc. to IEC 60721</li> <li>K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)</li> <li>acc. to IEC 60947-4:2: Class A</li> <li>Communication module is supported</li> <li>PROFINET standard</li> <li>Yes</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>PROFIBUS</li> <li>Ves</li> <li>Ves</li> <li>Ves</li> <li>PROFIBUS</li> <li>Yes</li> <li>Ves</li> <li>Ves</li> <li>PROFIBUS</li> <li>Ves</li> <li>Ves</li></ul>	3	
environmental category <ul> <li>during operation acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>Communication/ Protocol</li> </ul> <ul> <li>K6 (nol (ce formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 3M6</li> <li>K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 3M6</li> <li>Communication/ Protocol</li> </ul> communication module is supported <ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> </ul> ull/CSA ratings           manufacturer's article number <ul> <li>Yes</li> <li>UL/CSA ratings</li> </ul> maufacturer's article number <ul> <li>of the fuse</li> <li> <ul> <li>usable for Standard Faults up to 575/600 V</li> <li>according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li> <ul> <li>usable for High Faults at inside-delta</li> <li>Vipe: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 100 kA</li> <li>at 200/208 V at 50 °C rated value</li></ul></li></ul></li></ul>		- · · ·
<ul> <li>during operation acc. to IEC 60721</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>during transport acc. to IEC 60721</li> <li>Adving transport acc. to IEC 60721</li> <li>EMC emitted interference</li> <li>acc. to IEC 609721-22, 2S1, 2M2 (max, fall height 0.3 m)</li> <li>acc. to IEC 609724-2; Class A</li> <li>Communication Module is supported</li> <li>PROFINET standard</li> <li>Yes</li> <li>PROFINET standard</li> <li>Yes</li> <li>Modbus RTU</li> <li>Nodobus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Of the fuse</li> <li></li></ul>	<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
<ul> <li>during storage acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>iduring transport acc. to IEC 60721</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>EMC emitted interference</li> <li>acc. to IEC 60947-4-2; Class A</li> <li>Communication module is supported</li> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>PROFIBUS</li> <li>Ves</li> <li>VLCSA ratings</li> <li>manufacturer's article number</li> <li>of the fuse</li> <li>— usable for Figh Faults up to 575/600 V according to UL</li> <li>— usable for Figh Faults up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Figh Faults at inside-delta circuit at 50 °C rated Value</li> <li>at 200/280 V at 50 °C rated value</li></ul>	environmental category	
not get inside the devices), 1M4         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         acc. to IEC 60947-4-2: Class A         Communication module is supported       acc. to IEC 60947-4-2: Class A         • PROFINET standard       Yes         • PROFINET high-feature       Yes         • DROFINET high-feature       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Yes         manufacturer's article number       of the fuse         - usable for Standard Faults up to 575/600 V       Type: Class J / L, max. 1600 A; lq = 30 kA         according to UL       - usable for High Faults up to 575/600 V       Type: Class J / L, max. 1600 A; lq = 30 kA         - usable for High Faults up to 575/600 V       according to UL       Type: Class J / L, max. 1200 A; lq = 100 kA         - usable for High Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; lq = 100 kA         - usable for High Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; lq = 100 kA         - usable for High Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; lq = 100 kA         - usable for High Faults at inside-delta circuit at 50 °C rated value	• during operation acc. to IEC 60721	
EMC emitted interference       acc. to IEC 60947-4-2: Class A         Communication module is supported       • PROFINET standard         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFINET high-feature       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Yes         manufacturer's article number       • of the fuse	• during storage acc. to IEC 60721	
Communication Protocol         communication module is supported         • PROFINET standard       Yes         • PROFINET high-feature       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Yes         manufacturer's article number       • of the fuse         - usable for Standard Faults up to 575/600 V according to UL       Type: Class J / L, max. 1600 A; Iq = 30 kA         - usable for Standard Faults up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; Iq = 100 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; Iq = 30 kA         - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; Iq = 100 kA         - usable for High Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; Iq = 100 kA         - usable for High Faults at inside-delta circuit up to 575/600 V according to UL       Type: Class J / L, max. 1200 A; Iq = 100 kA         e at 200/208 V at 50 °C rated value       150 hp       150 hp         • at 260/208 V at 50 °C rated value       200 hp       400 hp       300 hp	<ul> <li>during transport acc. to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported       Yes         • PROFINET standard       Yes         • PROFINET high-feature       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Yes         manufacturer's article number       Yes         - usable for Standard Faults up to 575/600 V       Type: Class J / L, max. 1600 A; Iq = 30 kA         - usable for Standard Faults up to 575/600 V       Type: Class J / L, max. 1600 A; Iq = 100 kA         - usable for Standard Faults up to 575/600 V       Type: Class J / L, max. 1600 A; Iq = 30 kA         - usable for Standard Faults up to 575/600 V       Type: Class J / L, max. 1600 A; Iq = 100 kA         - usable for Standard Faults up to 575/600 V       Type: Class J / L, max. 1600 A; Iq = 100 kA         - usable for Standard Faults at inside-delta circuit up       Type: Class J / L, max. 1600 A; Iq = 100 kA         operating power [hp] for 3-phase motors       Type: Class J / L, max. 1200 A; Iq = 100 kA         • at 200/208 V at 50 °C rated value       150 hp         • at 200/208 V at 50 °C rated value       300 hp         • at 480/480 V at inside-delta circuit at 50 °C rated value       300 hp         • at 200/208 V at inside-delta circuit at 50 °C rated value       350 hp <td>EMC emitted interference</td> <td>acc. to IEC 60947-4-2: Class A</td>	EMC emitted interference	acc. to IEC 60947-4-2: Class A
<ul> <li>PROFINET standard</li> <li>Yes</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> <b>UL/CSA ratings UL/CSA ratings UU/CSA ratings UU UU</b> <td>Communication/ Protocol</td> <td></td>	Communication/ Protocol	
PROFINET high-featureYesEtherNet/IPYesModbus RTUYesModbus RTUYesModbus TCPYesPROFIBUSYes <b>UL/CSA ratings</b> Type: Class J / L, max. 1600 A; lq = 30 kA- usable for Standard Faults up to 575/600 V according to ULType: Class J / L, max. 1600 A; lq = 100 kA- usable for Standard Faults up to 575/600 V according to ULType: Class J / L, max. 1200 A; lq = 100 kA- usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1200 A; lq = 100 kA- usable for Standard Faults at inside-delta 	communication module is supported	
EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYesUL/CSA ratingsYesthermal statice number	<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>UL/CSA rating to UL</li> <li>UL/CSA rating to C rated value</li> <li>UL/CSA vat inside-delta circuit</li></ul>	<ul> <li>PROFINET high-feature</li> </ul>	Yes
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Japhase motors</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 420/200 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	EtherNet/IP	Yes
• PROFIBUSYesUL/CSA ratingsmanufacturer's article number • of the fuse usable for Standard Faults up to 575/600 V according to ULType: Class J / L, max. 1600 A; Iq = 30 kA- usable for High Faults up to 575/600 V according to ULType: Class J / L, max. 1200 A; Iq = 100 kA- usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1200 A; Iq = 30 kA- usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1600 A; Iq = 30 kA- usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1600 A; Iq = 30 kA- usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1200 A; Iq = 100 kA• at 220/230 V at 50 °C rated value150 hp• at 220/230 V at 50 °C rated value200 hp• at 220/230 V at inside-delta circuit at 50 °C rated value300 hp• at 220/230 V at inside-delta circuit at 50 °C rated value350 hp• at 460/480 V at inside-delta circuit at 50 °C rated value350 hp	Modbus RTU	Yes
UL/CSA ratings         manufacturer's article number         • of the fuse         — usable for Standard Faults up to 575/600 V         according to UL         — usable for High Faults up to 575/600 V         according to UL         — usable for Standard Faults up to 575/600 V         according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         Operating power [hp] for 3-phase motors         • at 220/208 V at 50 °C rated value         • at 220/208 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 460/480 V	Modbus TCP	Yes
manufacturer's article number         • of the fuse         — usable for Standard Faults up to 575/600 V         according to UL         — usable for High Faults up to 575/600 V         according to UL         — usable for Standard Faults up to 575/600 V         according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit at 50 °C rated value         • at 200/208 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 260/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at insi	PROFIBUS	Yes
manufacturer's article number         • of the fuse         — usable for Standard Faults up to 575/600 V         according to UL         — usable for High Faults up to 575/600 V         according to UL         — usable for Standard Faults up to 575/600 V         according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit at 50 °C rated value         • at 200/208 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 260/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at insi	UL/CSA ratings	
<ul> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit at 50 °C rated</li> <li>usable for High Faults at 50 °C rated</li> <li>usable for High Faults at 50 °C rated</li> <li>usable for Standard Faults at 50 °C rated</li> <li>usable for High Faults at 50 °C rated</li> <li>usable for High Faults for the fault for fault for the faul</li></ul></li></ul>		
<ul> <li>usable for Standard Faults up to 575/600 V</li> <li>usable for High Faults up to 575/600 V</li> <li>usable for High Faults up to 575/600 V</li> <li>usable for Standard Faults up to 575/600 V</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Japhase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>		
	— usable for Standard Faults up to 575/600 V	Type: Class J / L, max. 1600 A; Iq = 30 kA
- usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1600 A; lq = 30 kA- usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1200 A; lq = 100 kAoperating power [hp] for 3-phase motors-• at 200/208 V at 50 °C rated value150 hp• at 220/230 V at 50 °C rated value200 hp• at 460/480 V at 50 °C rated value400 hp• at 220/208 V at 50 °C rated value300 hp• at 220/208 V at inside-delta circuit at 50 °C rated300 hp• at 220/208 V at inside-delta circuit at 50 °C rated350 hp	— usable for High Faults up to 575/600 V	Type: Class J / L, max. 1200 A; Iq = 100 kA
	- usable for Standard Faults at inside-delta	Type: Class J / L, max. 1600 A; Iq = 30 kA
operating power [hp] for 3-phase motors150 hp• at 200/208 V at 50 °C rated value150 hp• at 220/230 V at 50 °C rated value200 hp• at 460/480 V at 50 °C rated value400 hp• at 200/208 V at inside-delta circuit at 50 °C rated value300 hp• at 220/230 V at inside-delta circuit at 50 °C rated value350 hp• at 460/480 V at inside-delta circuit at 50 °C rated value350 hp	— usable for High Faults at inside-delta circuit up	Type: Class J / L, max. 1200 A; Iq = 100 kA
<ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>		
<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>400 hp</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated</li> <li>50 hp</li> </ul>		150 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated</li> </ul>		
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated 750 hp</li> </ul>	• at 460/480 V at 50 °C rated value	
value ● at 460/480 V at inside-delta circuit at 50 °C rated 750 hp	• at 200/208 V at inside-delta circuit at 50 °C rated	
		350 hp
		750 hp

contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover	
electromagnetic compatibility	acc. to IEC 60947-4-2	
ATEX		
certificate of suitability		
• ATEX	Yes	
• IECEx	Yes	
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X	
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]	
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0	
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008	
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.0000005 1/h	
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1	
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 у	
Certificates/ approvals		
General Product Approval	EMC For use in hazard- ous locations	
For use in hazard- ous locationsDeclaration of ConformityTest Certification	ates Marine / Shipping	
IECEx EG-Konf.		
Marine / Shipping other		
PRS Confirmation	<u>on</u>	
Further information		
Information- and Downloadcenter (Catalogs, Brochures,		
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5548-6HA14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5548-6HA14 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5548-6HA14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5548-6HA14⟨=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5548-6HA14/char		

## Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5548-6HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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