# SIEMENS



#### Data sheet

### 3RW5527-3HA14



SIRIUS soft starter 200-480 V 93 A, 110-250 V AC spring-type terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
of high feature HMI module usable	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2216-7MN32-0AA0: Type of coordination 1. lq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10</u>
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3136-6; Type of coordination 1, Iq = 65 kA</u>
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3136-6; Type of coordination 1, Iq = 65 kA</u>
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1224-0; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3227: Type of coordination 2. lq = 65 kA</u>
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class according to IEC 61557-12	5 %
certificate of suitability	

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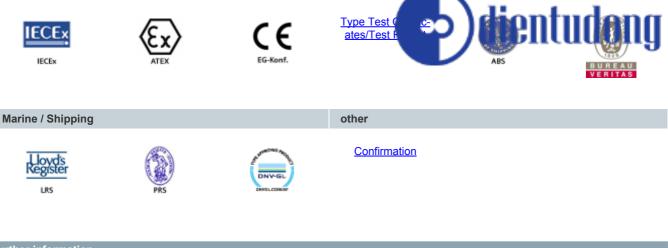
• CE marking	Yes
5	Yes Yes Yes
UL approval     CSA approval	
CSA approval	res
product component	
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	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
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
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
<ul> <li>breakaway pulse</li> </ul>	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
DC braking	Yes
motor heating	Yes
<ul> <li>slave pointer function</li> </ul>	Yes
trace function	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes
event list	Yes
error logbook	Yes
via software parameterizable	Yes
• via software configurable	Yes
screw terminal	No
<ul> <li>spring-loaded terminal</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
firmware update	Yes

<ul> <li>removable terminal for control circuit</li> </ul>	Yes
<ul> <li>voltage ramp</li> </ul>	Yes Yes <b>(D)</b> dientudong
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
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions  Power Electronics	Yes
operational current • at 40 °C rated value	93 A
at 40 °C rated value     at 40 °C rated value minimum	93 A 19 A
at 50 °C rated value	82.5 A
at 60 °C rated value	75.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	161 A
<ul> <li>at 50 °C rated value</li> </ul>	143 A
• at 60 °C rated value	131 A
operating voltage	
<ul> <li>rated value</li> </ul>	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 inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	22 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	45 kW
• at 400 V at 40 °C rated value	45 kW
at 400 V at inside-delta circuit at 40 °C rated value	90 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 televance of the exercise frequency	10.9/
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 % 10 %; Relative to set le
minimum load [%] power loss [W] for rated value of the current at AC	10 %; Relative to set le
minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup	10 %; Relative to set le 28 W
minimum load [%]power loss [W] for rated value of the current at AC• at 40 °C after startup• at 50 °C after startup	10 %; Relative to set le 28 W 25 W
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup	10 %; Relative to set le 28 W
minimum load [%]power loss [W] for rated value of the current at AC• at 40 °C after startup• at 50 °C after startup	10 %; Relative to set le 28 W 25 W
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         power loss [W] at AC at current limitation 350 %	10 %; Relative to set le 28 W 25 W 23 W
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 60 °C after startup         • at 40 °C after startup         • at 60 °C after startup         • at 40 °C during startup	10 %; Relative to set le 28 W 25 W 23 W 1 258 W
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         power loss [W] at AC at current limitation 350 %         • at 40 °C during startup         • at 50 °C during startup	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         power loss [W] at AC at current limitation 350 %         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during startup         • at 60 °C during startup	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during startup         • at 60 °C during startup         • at 60 °C during startup	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during sta	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W Electronic, tripping in the event of thermal overload of the motor AC
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during startup         • at 50 Hz	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during startup         • at 50 Hz         • at 50 Hz         • at 60 Hz	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V 110 250 V
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during startup         type of the motor protection         Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz         • at 60 Hz         relative negative tolerance of the control supply voltage at AC at 50 Hz	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V 110 250 V -15 %
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 40 °C during startup         • at 60 °C during startup         type of the motor protection         Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz         • at 60 Hz         relative negative tolerance of the control supply	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V 110 250 V
minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during startup         type of the motor protection         Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz         • at 60 Hz         relative negative tolerance of the control supply voltage at AC at 50 Hz         relative positive tolerance of the control supply	10 %; Relative to set le 28 W 25 W 23 W 1 258 W 1 065 W 948 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V 110 250 V -15 %

voltage at AC at 60 Hz	diantudana
relative positive tolerance of the control supply	10 % (c) dientudong
voltage at AC at 60 Hz	50 60 Hz
control supply voltage frequency relative negative tolerance of the control supply	-10 %
voltage frequency	
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	180 mA
locked-rotor current at close of bypass contact maximum	0.8 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
<ul> <li>number of digital outputs</li> </ul>	4
number of digital outputs parameterizable	3
number of digital outputs not parameterizable	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
• at DC-13 at 24 V rated value	1A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	306 mm
width	
	185 mm
	185 mm 203 mm
depth	185 mm 203 mm
depth required spacing with side-by-side mounting	203 mm
depth required spacing with side-by-side mounting • forwards	203 mm 10 mm
depth required spacing with side-by-side mounting • forwards • backwards	203 mm 10 mm 0 mm
depth required spacing with side-by-side mounting • forwards • backwards • upwards	203 mm 10 mm 0 mm 100 mm
depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	203 mm 10 mm 0 mm 100 mm 75 mm
depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging	203 mm 10 mm 0 mm 100 mm 75 mm
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals 25 mm
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals 25 mm 50 m
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals 25 mm 50 m 150 m
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals 25 mm 50 m
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • mith conductor cross-section = 2.5 mm² maximum         • for main contacts for box terminal using the front	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals 25 mm 50 m 150 m
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals 25 mm 50 m 150 m 250 m
depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • for main contacts for box terminal using the front clamping point solid         • for main contacts for box terminal using the front clamping point finely stranded with core end	203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg box terminal spring-loaded terminals 25 mm 50 m 150 m 250 m 1x (2.5 16 mm <sup>2</sup> )

• for main contacts for box terminal using the back clamping points solid         1x (2, 5, 16 mm <sup>2</sup> )           • for main contacts for box terminal using the back clamping points clamping points solid         1x (10, 20)           • for main contacts for box terminal using both clamping points findly stranded with core end processing         1x (2, 5, 50 mm <sup>2</sup> )           • for main contacts for box terminal using the back clamping points stranded         1x (2, 5, 50 mm <sup>2</sup> )           • for main contacts for box terminal using the back clamping points stranded with core end processing         1x (10, 70 mm <sup>2</sup> )           • for control circuit sold         2x (0, 25, 15 mm <sup>2</sup> )           • for control circuit sold         2x (0, 25, 15 mm <sup>2</sup> )           • at MKG cables for control circuit sold         2x (0, 25, 15 mm <sup>2</sup> )           • at MKG cables for control circuit sold         2x (0, 25, 15 mm <sup>2</sup> )           • at MKG cables for control circuit sold         2x (0, 25, 15 mm <sup>2</sup> )           • at MKG cables for control circuit sold         2x (0, 25, 15 mm <sup>2</sup> )           • at modight inputs at Dorb maximum         800 m           • at modight inputs at Dorb maximum         800 m           • for auxilary and control contacts with screw-type terminals         4.5 6 Nm           • for auxilary and control contacts with screw-type terminals         4.0 480 °C           • for auxilary and control contacts with screw-type terminals		
a for used of the second se	8	1x (2.5 16 mm <sup>2</sup> )
clamping points solid       2x (2.5 35 mm <sup>2</sup> )         e for main contacts for box terminal using both clamping points stranded with core end processing       2x (2.5 35 mm <sup>2</sup> )         e for main contacts for box terminal using the back clamping point finely stranded with core end processing       2x (6 16 mm <sup>2</sup> ), 2x (10 50 mm <sup>2</sup> )         e for main contacts for box terminal using the back clamping point stranded       1x (10 70 mm <sup>2</sup> )         i for oratio circuit finely stranded with core end processing       1x (10 70 mm <sup>2</sup> )         e for oratio circuit finely stranded with core end processing       2x (2.5 15 mm <sup>2</sup> )         e at AWC cables for control circuit finely stranded with core end processing       2x (2.5 15 mm <sup>2</sup> )         e at the digital inputs at DC maximum       800 m         e at the digital inputs at DC maximum       800 m         e tor main contacts with screex-type terminals       4 10.         e for auxiliary and control contacts with screex-type terminals       4 10 53 bf <sup>2</sup> /in         e for auxiliary and control contacts with screex-type terminals       5.000 m; Dereting as of 1000 m, see catalog         installation effutude at height above sea level maximum       5.000 m; Dereting as of 1000 m, see catalog         ambient temperature       6.000 m; Dereting as of 1000 m, see catalog         entromestator       6.000 m; Dereting as of 1000 m, see catalog         entoretinstreamport       -25 +60 °C.		1x (10 2/0)
clamping points (help) stranded with core and processing       2x (6 16 mm²), 2x (10 50 mm²)         • for main contacts for box terminal using the back clamping point stranded with core and processing       2x (6 16 mm²), 2x (10 50 mm²)         • for main contacts for box terminal using the back clamping point stranded with core and processing       1x (10 70 mm²)         • for control circuit solid       2x (0.25 1.5 mm²)         • for control circuit solid       2x (2.4 16)         • at XMG cables for control circuit solid       2x (2.4 16)         • at XMG cables for control circuit solid       2x (2.4 16)         • at XMG cables for control circuit solid       2x (2.4 16)         • at XMG cables for control circuit solid       2x (2.4 16)         • at XMG cables for control circuit solid       2x (2.4 16)         • at XMG cables for control contacts with screw-type terminals       6.5 6 N m         • for main contacts with screw-type terminals       6.5 6 N m         • for main contacts with screw-type terminals       6.5 12 N m         • for main contacts with screw-type terminals       6.00 m; Derating as of 1000 m, see catalog         ambinet comperation scording to IEC 60721       40 53 Ibf in         • during storage and transport       -00 80 °C         • during storage and transport       -00 80 °C         • during		2x (2.5 16 mm <sup>2</sup> )
elemping points stranded       ix (2.550 mm?)         • for main contacts for box terminal using the back clamping point stranded       1x (2.550 mm?)         • for name contacts for box terminal using the back clamping point stranded       1x (1070 mm?)         • for control circuit solid       2x (0.2515 mm?)         • for control circuit finely stranded with core end processing       2x (0.2515 mm?)         • end control circuit finely stranded with core end processing       2x (2416)         • end control circuit finely stranded with core end processing       2x (2416)         • end control circuit finely stranded with core end processing       800 m         • end main contacts with screw-type terminals       600 m         • for main contacts with screw-type terminals       4.5 6 N m         • for main contacts with screw-type terminals       4.5 6 N m         • 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 storage and transport       -40 +80 °C         • during storage according to IEC 60721       3K6 (no loce formation, only occasional condensation), 3C3 (no salt mist), 352 (sand must not get into the devices), 1M4         • during transport according to IEC 60721       2K2, Z1, Z3, Z1, Z4, Z4, Z4, Z4, Z4, Z4, Z4, Z4, Z4, Z4	clamping points finely stranded with core end	2x (2.5 35 mm²)
clamping point finely stranded with core and processing     1x (1070 mm²)       • for control circuit solid     2x (0.25, 1.5 mm²)       • for control circuit solid     2x (0.25, 1.5 mm²)       • if XMG cables for control circuit solid     2x (24 16)       • ell control contro		2x (6 16 mm²), 2x (10 50 mm²)
elamping point stranded       type of connectable conductor cross-sections       • for control circuit solid       • for control circuit finely stranded with core end processing       • at AWG cables for control circuit finely stranded with core end processing       • elawies and processing       • elawies and processing       • elawies and statter and motor maximum       • elawies and control contacts with screw-type terminals       • for main contacts with screw-type terminals       • for auxiliary and control contacts with screw-type terminals       • for auxiliary and control contacts with screw-type terminals       • for auxiliary and control contacts with screw-type terminals       • for auxiliary and control contacts with screw-type terminals       • for auxiliary and control contacts with screw-type terminals       • for auxiliary and control contacts with screw-type terminals       • for auxiliary and control orbacts with screw-type terminals       • for auxiliary and control contacts with screw-type terminals       • for auxiliary and control orbacts with screw-type terminals       • for auxiliary and control to the devices, 306       • during storage according to IEC 60721       • during storage according to IEC 60721       • during strage ac	clamping point finely stranded with core end	1x (2.5 50 mm²)
	clamping point stranded	1x (10 70 mm²)
for control circuit finely stranded with core end processing             et AWG cables for control circuit sold             2x (24 16)             2x (24 21, 24 16)             2x (24 21, 24 16)             2x (24 21, 24.	type of connectable conductor cross-sections	
<ul> <li>at AWG cables for control circuit solid</li> <li>at AWG cables for control circuit finely stranded with core end processing</li> </ul> 2x (24 16)                wire length             • between soft starter and motor maximum             • at the digital inputs at DC maximum             • of main contacts with screw-type terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • during operation             • during storage and transport             • during storage and transport             • during storage according to IEC 60721             • during storage according to IEC 60721             • during transport according to IEC 60721             • during transport according to IEC 60721             • during transport according to IEC 60721             • Communication             • during transport according to IEC 60721             • Communication             • during transport according to IEC 60721             • Corestore to thorelavices), 1M4             • Core	<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
• at AWG cables for control circuit finely stranded with core end processing       2x (24 16)         • between soft starker and motor maximum       800 m         • at the digital inputs at DC maximum       1000 m         • at the digital inputs at DC maximum       800 m         • at the digital inputs at DC maximum       1000 m         • for main contacts with screw-type terminals       4.5 6 N·m         • for auxiliary and control contacts with screw-type terminals       40 53 lbf in         • for auxiliary and control contacts with screw-type terminals       40 53 lbf in         • for auxiliary and control contacts with screw-type terminals       40 53 lbf in         • for auxiliary and control contacts with screw-type terminals       40 50 lbf in         Anbient conditions       7 10.3 lbf in         • during operation       5 000 m; Derating as of 1000 m, see catalog         • anbient conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         • during storage according to IEC 60721       3K6 (nol ce formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must or deg tinto the devices), 3M6         • during transport according to IEC 60721       3K6 (nol occasional condensation), 1C2 (no salt mist), 3S2 (sand must or deg tinto the devices), 3M6         • during transport according to IE		2x (0.25 1.5 mm²)
core end processing     800 m       wire length     800 m       • at the digital inputs at DC maximum     1000 m       tightening torque     60 m min contacts with screw-type terminals       • for auxiliary and control contacts with screw-type     8 1.2 N·m       tightening torque [1b7+in]     0.8 1.2 N·m       • for main contacts with screw-type terminals     4	<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
• between soft starter and motor maximum     800 m       • at the digital inputs at DC maximum     1000 m       tightening torque     • for main contacts with screw-type terminals     4.5 6 N m       • for main contacts with screw-type terminals     4.5 6 N m       • for main contacts with screw-type terminals     4.5 6 N m       • for main contacts with screw-type terminals     4.5 6 N m       • for auxiliary and control contacts with screw-type terminals     4.5 6 N m       • for auxiliary and control contacts with screw-type terminals     7 10.3 lbFin       • for main contacts with screw-type terminals     7 10.3 lbFin       • for auxiliary and control contacts with screw-type     7 10.3 lbFin       • for auxiliary and control contacts with screw-type     7 10.3 lbFin       • for auxiliary and control contacts with screw-type     7 10.3 lbFin       • during operation     -25 +60 °C; Please observe derating at temperatures of 40 °C or above       • during storage and transport     -40 +80 °C       • during storage according 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 according to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)       • during transport according to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)       • DEMC emitted interforence     acc. to IEC 60947-4-2: Class		2x (24 16)
• at the digital inputs at DC maximum       1 000 m         tightening torque       • for main contacts with screw-type terminals         • for main contacts with screw-type terminals       4.5 6 N·m         tightening torque [lbf:in]       0.8 1.2 N·m         • for main contacts with screw-type terminals       40 53 lbfin         • for maxing and control contacts with screw-type terminals       40 53 lbfin         • for maxing and control contacts with screw-type terminals       7 10.3 lbfin         • for maxing and control contacts with screw-type       7 10.3 lbfin         Installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient conditions       +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation according 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 according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         • etherNet/IP       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFINES       Yes         • PROF	wire length	
tightening torque       4.5 6 N·m         • for main contacts with screw-type terminals       6.8 1.2 N·m         • for auxiliary and control contacts with screw-type terminals       0.8 1.2 N·m         • for auxiliary and control contacts with screw-type terminals       4.5 6 N·m         • for auxiliary and control contacts with screw-type terminals       4.5 6 N·m         • for auxiliary and control contacts with screw-type terminals       4.0 53 lbFin         Ambient conditions       7 10.3 lbFin         installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       • during operation         • during operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       3K6 (nol ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         acc. to IEC 60947-4-2; Class A, Class B on request       Communication Protocol         communication module is supported       Yes         • PROFINET standard       Yes         • Modbus TCP       Yes         • Modbus TCP       Yes         • PROFIBUS	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>ightening torque [lbf:in]</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts and transport</li> <li>during operation according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>for antited interference</li> <li>for antited interference</li> <li>foremuni</li></ul>	<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
• for auxiliary and control contacts with screw-type terminals         0.8 1.2 N·m           tightening torque [lbf·in]         • for main contacts with screw-type terminals         40 53 lbf·in           • for auxiliary and control contacts with screw-type terminals         40 53 lbf·in           Ambient conditions         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 operation           • during operation         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during operation according to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6           • during transport according to IEC 60721         3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 3M6           • during transport according to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • during transport according to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • during transport according to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • DROFINET standard         Yes           • PROFINET standard         Yes           • PROFINET standard         Yes           • PROFINET standard         Y	tightening torque	
terminals       1         tightening torque [lbf·in]       40         • for main contacts with screw-type terminals       40         • for auxiliary and control contacts with screw-type terminals       7         Ambient conditions       7         Installation altitude at height above sea level maximum       5         • during operation       5         • during storage and transport       -25         • during operation according 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 according to IEC 60721       3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 3S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)         • DerOFINET standard       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFINET stri	<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum ambient temperature</li> <li>during operation</li> <li>during storage and transport</li> <li>eduring storage and transport</li> <li>eduring operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>SE (sand must not get into the devices), 3M6</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</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>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>ULCSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V</li> <li>Siemens type: 3VA51, max. 125 A; Ig = 10 kA</li> </ul>	5	0.8 1.2 N·m
• for auxiliary and control contacts with screw-type terminals         7 10.3 lbf in           Ambient conditions         5 000 m; Derating as of 1000 m, see catalog           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 operation         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40 +80 °C           • during operation according to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6           • during transport according to IEC 60721         1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4           • during transport according to IEC 60721         2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)           • during transport according to IEC 60721         2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)           • during transport according to IEC 60721         2K2, S2 (J, 2S1, 2M2 (max. fall height 0.3 m)           • during transport according to IEC 60721         2K2, S2 (J, 2S1, 2M2 (max. fall height 0.3 m)           • DROFINET standard         Yes           • PROFINET high-feature         Yes           • PROFINET bigh-feature         Yes           • Modbus RTU <td>tightening torque [lbf·in]</td> <td></td>	tightening torque [lbf·in]	
Installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       -         • during operation       -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 operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during transport according to IEC 60721       3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport according to IEC 60721       acc. to IEC 60947-4-2; Class A, Class B on request         Communication Module is supported       Yes         • PROFINET high-feature       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • PROFIBUS       Yes         • PROFIBUS       Yes         • PROFIBUS       Yes         • During transport according to IEC 60721       Yes         • PROFINET high-feature       Yes         • PROFINET bigh-feature       Yes         • PROFINET bigh-feature	<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in
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       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • Communication module is supported       Yes         • PROFINET standard       Yes         • PROFINET high-feature       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         • PROFIBUS       Yes         • DROFIBUS       Yes         • o		7 10.3 lbf·in
ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         • during operation according 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 according to IEC 60721       3K6 (noly occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • Communication module is supported       acc. to IEC 60947-4-2: Class A, Class B on request         Communication module is supported       Yes         • PROFINET standard       Yes         • Modbus RTU       Yes         • PROFIBUS       Yes		
• during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage according to IEC 60721       3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • Communication/ Protocol       acc. to IEC 60947-4-2: Class A, Class B on request         Communication module is supported       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFIBUS       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         • PROFIBUS       Yes         • PROFIBUS       Yes         • DRUCess       Yes         • DRUE satisfier number       Yes         • DRUE satisfier number       Yes         • Coricuit b	Ambient conditions	
• during storage and transport       -40 +80 °C         • during operation according 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 according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • EMC emitted interference       acc. to IEC 60947-4-2: Class A, Class B on request         Communication module is supported       • PROFINET standard         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         • PROFIBUS       Yes         • DROFIBUS       Yes		5 000 m; Derating as of 1000 m, see catalog
environmental category <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>tK6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> </ul> <ul> <li>during storage according to IEC 60721</li> <li>tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>during transport according to IEC 60721</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> </ul> EMC emitted interference           communication / Protocol           communication module is supported <ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> </ul> <ul> <li>VIC/CSA ratings</li> </ul> manufacturer's article number <ul> <li>of circuit breaker</li> <li>- usable for Standard Faults at 460/480 V</li> </ul> Siemens type: 3VA51, max. 125 A; lq = 10 kA	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
<ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>during transport according 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, Class B on request</li> <li>Communication module is supported</li> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> </ul> <b>UL/CSA ratings The standard Faults at 460/480 V</b> Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
mist), 3S2 (sand must not get into the devices), 3M6         • during storage according to IEC 60721         1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport according to IEC 60721         2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         EMC emitted interference         acc. to IEC 60947-4-2: Class A, Class B on request         Communication module is supported         • PROFINET standard         • PROFINET high-feature         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS         Yes         • DROFIBUS         Yes         • Of circuit breaker         • of circuit breaker         • usable for Standard Faults at 460/480 V	installation altitude at height above sea level maximum <b>ambient temperature</b> • during operation • during storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
not get inside the devices), 1M4• during transport according to IEC 607212K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A, Class B on requestEMC emitted interferenceacc. to IEC 60947-4-2: Class A, Class B on requestCommunication/ ProtocolYescommunication module is supportedYes• PROFINET standardYes• PROFINET high-featureYes• EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYesUL/CSA ratingsmanufacturer's article numberSiemens type: 3VA51, max. 125 A; lq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C
EMC emitted interference       acc. to IEC 60947-4-2: Class A, Class B on request         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         — usable for Standard Faults at 460/480 V       Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum <b>ambient temperature</b> • during operation • during storage and transport <b>environmental category</b> • during operation according to IEC 60721	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> </ul>
Communication/ Protocol         communication module is supported         • PROFINET standard         • PROFINET standard         • PROFINET high-feature         • PROFINET high-feature         Yes         • EtherNet/IP         • Modbus RTU         • Modbus RTU         • Modbus TCP         • PROFIBUS         Yes         UL/CSA ratings         manufacturer's article number         • of circuit breaker         - usable for Standard Faults at 460/480 V         Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum <b>ambient temperature</b> • during operation • during storage and transport <b>environmental category</b> • during operation according to IEC 60721 • during storage according to IEC 60721	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> </ul>
communication module is supported          • 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 circuit breaker         - usable for Standard Faults at 460/480 V       Siemens type: 3VA51, max. 125 A; lq = 10 kA	installation altitude at height above sea level maximum <b>ambient temperature</b> • during operation • during storage and transport <b>environmental category</b> • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> </ul>
<ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>EtherNet/IP</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> UL/CSA ratings           ut/CSA ratice number           of circuit breaker           - usable for Standard Faults at 460/480 V   Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> </ul>
• PROFINET high-featureYes• EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYes• DEVERTIONYes• Of circuit breaker- usable for Standard Faults at 460/480 V• Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> </ul>
EtherNet/IP Yes Modbus RTU Modbus RTU Modbus TCP PROFIBUS Yes UL/CSA ratings UL/CSA ratings  - usable for Standard Faults at 460/480 V Siemens type: 3VA51, max. 125 A; lq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul>
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>VL/CSA ratings</li> <li>UL/CSA raticle number</li> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V</li> <li>Siemens type: 3VA51, max. 125 A; lq = 10 kA</li> </ul>	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul>
Modbus TCP     Yes     PROFIBUS     Yes  UL/CSA ratings  Manufacturer's article number     of circuit breaker     — usable for Standard Faults at 460/480 V     Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> <li>Yes</li> <li>Yes</li> </ul>
PROFIBUS Yes  UL/CSA ratings  manufacturer's article number     of circuit breaker     — usable for Standard Faults at 460/480 V Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul> Yes Yes
UL/CSA ratings         manufacturer's article number         • of circuit breaker         — usable for Standard Faults at 460/480 V         Siemens type: 3VA51, max. 125 A; lq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul> Yes Yes Yes Yes
manufacturer's article number         • of circuit breaker         — usable for Standard Faults at 460/480 V         Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul> Yes Yes Yes Yes
of circuit breaker     — usable for Standard Faults at 460/480 V     Siemens type: 3VA51, max. 125 A; Iq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul> Yes Yes Yes Yes
— usable for Standard Faults at 460/480 V Siemens type: 3VA51, max. 125 A; lq = 10 kA	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul> Yes Yes Yes Yes
	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul> Yes Yes Yes Yes
	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> <li>Yes</li> </ul>
to UL	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Siemens type: 3VA51, max. 125 A; Iq = 10 kA</li> </ul>
<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA51, max. 125 A; lq = 10 kA</li> </ul>	installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A, Class B on request</li> </ul> Yes Yes Yes Yes Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA

<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3VA
<ul> <li>— usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq max = 65 kA
<ul> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq = 10 kA
<ul> <li>of the fuse</li> </ul>	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 300 A; Iq = 10 kA
<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 250 A; Iq = 100 kA
<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 300 A; Iq = 10 kA
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 250 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	25 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	30 hp
• at 460/480 V at 50 °C rated value	60 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	40 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	50 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	100 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC	IP00; IP20 with cover
60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
	acc to IEC 60947-4-2
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	acc. to IEC 60947-4-2
ATEX certificate of suitability	
ATEX certificate of suitability • ATEX	Yes
ATEX certificate of suitability	
ATEX certificate of suitability • ATEX	Yes
ATEX certificate of suitability • ATEX • IECEx	Yes Yes
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive	Yes Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db],
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508	Yes Yes BVS 18 ATEX F 003 X 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]
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508	Yes Yes BVS 18 ATEX F 003 X 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] 0
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1
ATEX         certificate of suitability         • ATEX         • IECEx         • according to ATEX directive 2014/34/EU         type of protection according to ATEX directive 2014/34/EU         hardware fault tolerance according to IEC 61508 relating to ATEX         PFDavg with low demand rate according to IEC 61508 relating to ATEX         PFHD with high demand rate according to EN 62061 relating to ATEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s
ATEX         certificate of suitability         • ATEX         • IECEx         • according to ATEX directive 2014/34/EU         type of protection according to ATEX directive 2014/34/EU         hardware fault tolerance according to IEC 61508 relating to ATEX         PFDavg with low demand rate according to IEC 61508 relating to ATEX         PFHD with high demand rate according to IEC 61508 relating to ATEX         PFHD with high demand rate according to IEC 61508 relating to ATEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         Certificates/ approvals         General Product Approval         Image: Confirmation         Output	Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s EMC EMC
ATEX         certificate of suitability         • ATEX         • IECEx         • according to ATEX directive 2014/34/EU         type of protection according to ATEX directive 2014/34/EU         hardware fault tolerance according to IEC 61508 relating to ATEX         PFDavg with low demand rate according to IEC 61508 relating to ATEX         PFHD with high demand rate according to IEC 61508 relating to ATEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         T1 value for proof test interval or service life according to IEC 61508 relating to ATEX         Certificates/ approvals         General Product Approval         Confirmation         Certificates in bazardous locations	Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s EMC EMC
ATEX         certificate of suitability         • ATEX         • IECEx         • according to ATEX directive 2014/34/EU         type of protection according to ATEX directive 2014/34/EU         hardware fault tolerance according to IEC 61508 relating to ATEX         PFDavg with low demand rate according to IEC 61508 relating to ATEX         PFHD with high demand rate according to IEC 61508 relating to ATEX         PFHD with high demand rate according to IEC 61508 relating to ATEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         Certificates/ approvals         General Product Approval         Image: Confirmation         Output	Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 s EMC EMC



Further information

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=3RW5527-3HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5527-3HA14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-3HA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5527-3HA14&lang=en

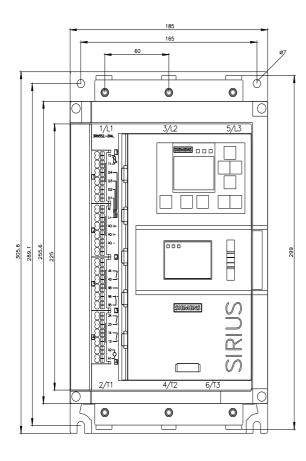
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

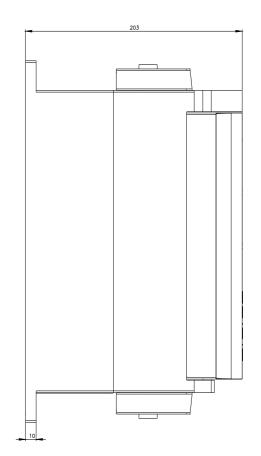
https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-3HA14/char

Characteristic: Installation altitude

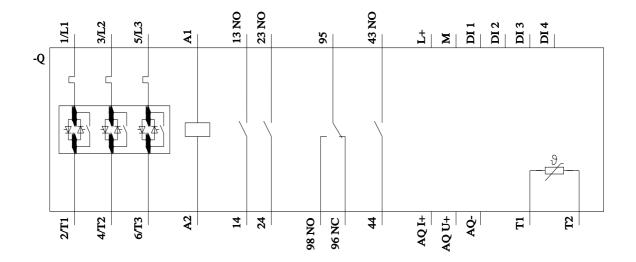
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5527-3HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917









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