## **SIEMENS**

3RW5525-1HF14 **Data sheet** 



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC, Screw terminals Fail-safe

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
of high feature HMI module usable	3RW5980-0HF00
of communication module PROFINET standard usable	3RW5980-0CS00
• of communication module PROFINET high-feature usable	3RW5950-0CH00
• of communication module PROFIBUS usable	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
• of communication module Modbus RTU usable	3RW5980-0CR00
of communication module Ethernet/IP	3RW5980-0CE00
• of circuit breaker usable at 400 V	3VA2163-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V	3VA2163-7MN32-0AA0; Type of coordination 1, lq = 20 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2110-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of the gG fuse usable up to 690 V	3NA3830-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3830-6; Type of coordination 1, Iq = 65 kA
• of full range R fuse link for semiconductor protection usable up to 690 V	3NE1022-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3227; Type of coordination 2, Iq = 65 kA
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN 62061</li> </ul>	<u>3RT2046</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN 62061</li> </ul>	<u>3RT2046</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN ISO 13849-1</li> </ul>	<u>3RT1055</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN ISO 13849-1</li> </ul>	<u>3RT1055</u>
eneral 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	5 (based on IEC 61557-12)
certificate of suitability	- (-1300 oo oo
• CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	103
HMI-High Feature	Yes
-	Yes
is supported HMI-High Feature  product feature integrated bypass contact system	Yes
. , , , , , , , , , , , , , , , , , , ,	3
number of controlled phases trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
•	10 60 %
current unbalance limiting value [%]	10 95 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	100 mg
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 protective separation	
between main and auxiliary circuit	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)	11/22/2019
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
adjustable current limitation	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
<ul><li>pump ramp down</li></ul>	Yes
<ul> <li>DC braking</li> </ul>	Yes
<ul> <li>motor heating</li> </ul>	Yes
slave pointer function	Yes
• trace function	Yes
• intrinsic device protection	Yes
motor overload protection	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.
evaluation of thermistor motor protection	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes
communication function	Yes
operating measured value display	Yes
event list	Yes
error logbook	Yes
-	Yes
via software parameterizable     via software configurable	Yes
via software configurable     corou terminal	
screw terminal	Yes
e spring loaded terminal	No
<ul><li>spring-loaded terminal</li><li>PROFlenergy</li></ul>	No Yes; in connection with the PROFINET Standard and PROFINET High-Feature

firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	Yes
-	Yes
<ul><li>automatic parameterisation</li><li>application wizards</li></ul>	Yes
alternative run-down	Yes
	Yes
emergency operation mode	Yes
reversing operation     set starting at heavy starting conditions	
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	00.4
at 40 °C rated value	63 A
at 40 °C rated value minimum     at 50 °C rated value	13 A
at 50 °C rated value     at 60 °C rated value	55.5 A
at 60 °C rated value	50.5 A
operational current at inside-delta circuit	100 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	109 A
	96 A
• at 60 °C rated value	87.5 A
operating voltage	000 400 //
• rated value	200 480 V
at inside-delta circuit rated value	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	18.5 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	30 kW
• at 400 V at 40 °C rated value	30 kW
at 400 V at inside-delta circuit at 40 °C rated value	55 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	10 W
• at 40 °C after startup	19 W
at 50 °C after startup      at 60 °C after startup	17 W
• at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %  • at 40 °C during startup	1 056 W
at 40 °C during startup      at 50 °C during startup	732 W
at 50 °C during startup     at 60 °C during startup	647 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	Licentering, implying in the event of thermal overload of the motor
	AC
type of voltage of the control supply voltage control supply voltage at AC	AU .
at 50 Hz	110 250 V
• at 50 Hz	110 250 V
relative negative tolerance of the control supply voltage at	-15 %
AC at 50 Hz	
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at	-15 %

AC at 60 Hz	
relative positive tolerance of the control supply voltage at	10 %
AC at 60 Hz	
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage	-10 %
relative positive tolerance of the control supply voltage	10 %
frequency	100 1
control supply current in standby mode rated value	100 mA 180 mA
holding current in bypass operation rated value inrush current by closing the bypass contacts maximum	0.8 A
inrush current peak at application of control supply voltage	43 A
maximum  duration of inrush current peak at application of control supply	1.6 ms
voltage	1.0 118
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
with fail-safe	1
parameterizable	4
<ul><li>number of digital outputs</li></ul>	3
Number of digital outputs with fail-safe	1
number of digital outputs parameterizable	2
number of digital outputs not parameterizable	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 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	1 A
Response times	100
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
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
depth required spacing with side-by-side mounting	203 mm
forwards	10 mm
₹ IUI Walus	19/11/11
• backwards	0 mm
<ul><li>backwards</li><li>upwards</li></ul>	0 mm 100 mm
• backwards	0 mm
<ul><li>backwards</li><li>upwards</li><li>downwards</li></ul>	0 mm 100 mm 75 mm
<ul><li>backwards</li><li>upwards</li><li>downwards</li><li>at the side</li></ul>	0 mm 100 mm 75 mm 5 mm
<ul> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> weight without packaging	0 mm 100 mm 75 mm 5 mm
<ul> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals	0 mm 100 mm 75 mm 5 mm
backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection	0 mm 100 mm 75 mm 5 mm 5.9 kg
<ul> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> </ul>	0 mm 100 mm 75 mm 5 mm 5.9 kg
backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit	0 mm 100 mm 75 mm 5 mm 5.9 kg  box terminal screw-type terminals
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	0 mm 100 mm 75 mm 5 mm 5.9 kg  box terminal screw-type terminals
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	0 mm 100 mm 75 mm 5 mm 5.9 kg  box terminal screw-type terminals 25 mm
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	0 mm 100 mm 75 mm 5 mm 5.9 kg  box terminal screw-type terminals 25 mm 50 m
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  type of connectable conductor cross-sections     for main contacts for box terminal using the front	0 mm 100 mm 75 mm 5 mm 5.9 kg  box terminal screw-type terminals 25 mm  50 m 150 m
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-sections	0 mm 100 mm 75 mm 5 mm 5.9 kg  box terminal screw-type terminals 25 mm  50 m 150 m 250 m

* For main contects for box ferminal using the back for main contects for box ferminal using the back for main contects for box ferminal using the back for main contects for box ferminal using both clamping points sold for main contects for box ferminal using both clamping points sold for main contects for box ferminal using both clamping points firely strawfed with core end processing for main contects for box ferminal using both clamping points firely strawfed with core end processing for main contects for box ferminal using both clamping points firely strawfed with core end processing for main contects for box ferminal using both clamping points firely strawfed with core end processing for main contects for box ferminal using both clamping points firely strawfed with core end processing for main contects for box ferminal using both clamping points firely strawfed with core end processing for main contects for box ferminal using the back clamping point strawfed for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely strawfed with core and processing for control circuit finely stra	a for main contacts for how towning!! the first	
• For main contracts for box terminal using the back charmings point solid  • For AVXC sables for man contracts for box terminal using be the back charming point in the property of the prop	· ·	1x (10 70 mm²)
For AVXC cables for main contacts for box terminal using the back damping point is sooid     For main contacts for box terminal using both clamping points food     For main contacts for box terminal using both clamping points food     For main contacts for box terminal using both clamping points food     For main contacts for box terminal using both clamping points standard for box terminal using the back clamping point fleely standed with core end processing     Formation contacts from the systematic with core end processing     Formation contacts from the systematic with core end processing     Formation contacts with series when the box     Formation contacts with series who come and processing     Formation contacts with series whype		1x (2.5 16 mm²)
the back clamping point  I of main contacts for box terminal using both clamping points sold  I of main contacts for box terminal using both clamping points finely stranded with core and processing  I or main contacts for box terminal using both clamping and contacts for box terminal using both clamping and contacts for box terminal using both clamping and contacts for box terminal using the back clamping on freely stranded with core and processing  I or main contacts for box terminal using the back clamping on the six stranding of the six stranding on the six stranding of the six stranding	clamping point solid	
bornis solid  of mains contacts for box terminal using both clamping points finely stranded with core and processing  of mains contacts for box terminal using the toak clamping points stranded  of mains contacts for box terminal using the back clamping point stranded  of mains contacts for box terminal using the back clamping point stranded  of control croatts of box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded  of control croatts for box terminal using the back clamping point stranded with core end processing to (5.525 mm²) (x (0.525		1x (10 2/0)
e for main contacts from the firm and surge both camping points stranded with core end processing of the part stra		2x (2.5 16 mm²)
points stranded  • for main contacts for box terminal using the back clamping point finely stranded with core end processing  • for control circuit said  • for control circuit finely stranded with core end processing  • for control circuit said  • for why gets starter and motor maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • to main contacts with screw-type terminals • for annicircuit said with screw-type terminals • for annicircuit said with screw-type terminals • for main contacts with screw-type termina		2x (2.5 35 mm²)
clamping point finely stranded with core end processing of main contacts for box beninal using the back clamping point stranded  1x (10 70 mm²)  1x (10 70 mm²)  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)  1x (0.5 4.0 mm²), 2x (0.5	0 1 0	2x (6 16 mm²), 2x (10 50 mm²)
clamping point standed  1 ypo of connectable conductor cross-sections  1 for control circuit solid  1 for Control contacts with screw-type terminals  1 for auxiliary and control contacts with screw-type terminals  2 for auxiliary and control contacts with screw-type terminals  2 for auxiliary and control contacts with screw-type terminals  2 for auxiliary and control contacts with screw		1x (2.5 50 mm²)
• for control circuit solid • between soft starfer and motor maximum • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • 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  Ambient conditions  Installation altitude at height above sea level maximum  ambient temperature • during operation • during storage according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during the storage according to IEC 60721 • during storage according to	· · · · · · · · · · · · · · · · · · ·	1x (10 70 mm²)
• for control circuit finely stranded with core end processing in FAWG cables for control circuit solid  **violength** • between soft starter and motor maximum • at the digital inputs at DC maximum • of the wild plant inputs at DC maximum • of main contacts with screw-type terminals • for suicilizing and control contacts with screw-type terminals  **tightening torque (librin) • for main contacts with screw-type terminals • for suicilizing and control contacts with screw-type terminals  **subject to formain contacts with screw-type terminals • for suicilizing and control contacts with screw-type terminals  **subject to formain contacts with screw-type terminals • for suicilizing and control contacts with screw-type terminals  **subject to formain contacts with screw-type terminals • for suicilizing and control contacts with screw-type terminals  **subject to formain contacts with screw-type te	type of connectable conductor cross-sections	
• for AWG cables for control circuit solid  wire length • between soft starter and motor maximum • at the digital inputs at DC maximum  1 000 m  1 0 8 m m  1 0 9 m m  1 0 9	<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
wire length  • between soft starter and motor maximum  • at the digital inputs at DC maximum  1 000 m	<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
between soft starter and motor maximum     at the digital inputs at DC maximum     1 000 m      tightening torque     of or main contacts with screw-type terminals     of an aximiary and control contacts with screw-type     terminals  tightening torque (ibf-in)     of or main contacts with screw-type terminals     of or aximiary and control contacts with screw-type     terminals  tightening torque (ibf-in)     of or main contacts with screw-type terminals     of or aximiary and control contacts with screw-type     terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temporature     ouring operation     ouring operation     ouring operation     ouring operation     ouring operation according to IEC 60721     ourin	<ul> <li>for AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
between soft starter and motor maximum     at the digital inputs at DC maximum     1 000 m      tightening torque     of or main contacts with screw-type terminals     of an aximiary and control contacts with screw-type     terminals  tightening torque (ibf-in)     of or main contacts with screw-type terminals     of or aximiary and control contacts with screw-type     terminals  tightening torque (ibf-in)     of or main contacts with screw-type terminals     of or aximiary and control contacts with screw-type     terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temporature     ouring operation     ouring operation     ouring operation     ouring operation     ouring operation according to IEC 60721     ourin	wire length	
### at the digital inputs at DC maximum  ### tightening torque  ### for main contacts with screw-type terminals  ### for auxiliary and control contacts with screw-type  ### terminals  ### to main contacts with screw-type terminals  ### for main contacts with screw-type terminals as for for a contacts with screw-type terminals as for for a contacts with screw-type terminals main contacts with screw-type terminals		800 m
tightening torque  for main contacts with screw-type terminals  for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  during operation according to IEC 60721  during operation according to IEC 60721  during storage 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  does not be supported  PROFINET standard  PROFINET standard  PROFINET ingh-feature  Sea		
• 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  Ambient conditions  Installation altitude at height above sea level maximum  ambient temperature • during operation • during operation • during operation according to IEC 60721  40 uring operation according to IEC 60721  40 uring storage according to IEC 60721  40 uring storage according to IEC 60721  40 uring transport according to IEC 60721  40 u	<u> </u>	1 000 111
For auxiliary and control contacts with screw-type terminals   40 53 lbf-in		
tightening torque [lbf-in]  • 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  Ambient conditions  Installation altitude at height above sea level maximum  ambient temporature • during operation • during operation • during operation according to IEC 60721  during storage according to IEC 60721  • during transport according to IEC 60721  • Definition of the devices), 1MA  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/ Protocol  communication/ Protocol  communication andule is supported  • PROFINET standard  • PROFINED  • See  • See  • See  • See  • See See  • S	•	
tightening torque [ibf·in]  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  Ambient conditions  Ambient conditions  ambient temperature  • during operation • during operation • during operation according to IEC 60721  • during operation according to IEC 60721  • 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  • Recemitted interference  communication/ Protocol  communication/ Protocol  communication module is supported  • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET giph-feature • Etherstet/IP • Modbus RTU • Nodbus RTU • Nodbus RTU • Nodbus RTU • PROFIBUS  ULJCSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — Usable for High Faults at 575/600 V at inside-delta circuit according to UL  — Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA  Siemens type: 3RV2742, max.		0.8 1.2 N·m
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  installation altitude at height above sea level maximum  ambient temperature • during operation • during operation • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Carl Standard Fordice of the devices), 1Md • during transport according to IEC 60721 • PROFINET standard • PROFIBUS  ULCSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V acc		
• for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum  amblent temperature • during operation • during storage and transport • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINED • Modbus RTU • Modbus RTU • PROFIBUS  Thigh-feature • of circuit breaker  — usable for Standard Faults at 460/480 V according to U. — usable for Standard Faults at 460/480 V at insidedelta circuit according to U. — usable for Standard Faults at 460/480 V at insidedelta circuit according to U. — usable for High Faults at 460/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U. — usable for High Faults at 450/480 V at insidedelta circuit according to U.  — usable for High Faults at 450/480 V at insidedelta circuit according to U.  — usable for High Faults at 450/480 V at insidedelta circuit according to U.  — usable for High Faults at 450/480 V at insidedelta circui		
Ambient conditions installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during storage are during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication Protocol  communication Protocol  communication Protocol  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFIBUS  ULICSA ratings  manufacturor's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to IU.  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UI.  — usable for High Faults at 460/480 V at inside-delta circuit according to UI.  — usable for High Faults at 460/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 460/480 V according to UI.  — usable for High Faults at 460/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 460/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 450/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 450/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 450/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 450/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 450/480 V at inside-delta circuit according to UI.  — usable for Fandard Faults at 55/600 V according to UI.  — usable for Fandard Faults at 55/600 V according to UI.  — usable for High Faults at 55/600 V according to UI.  — usable for Fandard Faults at 55/600 V according to UI.  — usable for Fandard Faults at 55/600 V ac	<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • PROFINET standard  • PROFIBUS   * PROFIBUS  * Yes  • EtherNevIP  • Modbus TCP  • PROFIBUS  * Yes  • Circuit breaker  • usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 450/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according		7 10.3 lbf·in
ambient temperature  • during operation  • during storage and transport  • during storage and transport  • during storage and transport  • during storage according to IEC 60721  • 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  EMC emitted interference  • communication/Protocol  Communication/Protocol  PROFINET standard  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus RTU  • PROFIBUS  ULCSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 480/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V	Ambient conditions	
<ul> <li>• during operation</li> <li>• during storage and transport</li> <li>• during storage and transport</li> <li>• during operation according to IEC 60721</li> <li>• during peration according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during transport according to IEC 60721</li> <li>• EMC emitted interference</li> <li>• during transport according to IEC 60721</li> <li>• EMC emitted interference</li> <li>• communication module is supported</li> <li>• PROFINET standard</li> <li>• PROFINET standard</li> <li>• PROFINET Standard</li> <li>• ElberNet/IP</li> <li>• Modbus RTU</li> <li>• Modbus RTU</li> <li>• PROFIBUS</li> <li>• Yes</li> <li>• PROFIBUS</li> <li>• Yes</li> <li>• Yes</li> <li>• Yes</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA to delta circuit according to UL</li> <li>• usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 k</li></ul>	installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog
<ul> <li>• during operation</li> <li>• during storage and transport</li> <li>• during storage and transport</li> <li>• during operation according to IEC 60721</li> <li>• during peration according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during transport according to IEC 60721</li> <li>• EMC emitted interference</li> <li>• during transport according to IEC 60721</li> <li>• EMC emitted interference</li> <li>• communication module is supported</li> <li>• PROFINET standard</li> <li>• PROFINET standard</li> <li>• PROFINET Standard</li> <li>• ElberNet/IP</li> <li>• Modbus RTU</li> <li>• Modbus RTU</li> <li>• PROFIBUS</li> <li>• Yes</li> <li>• PROFIBUS</li> <li>• Yes</li> <li>• Yes</li> <li>• Yes</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA to delta circuit according to UL</li> <li>• usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>• Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 k</li></ul>	ambient temperature	
<ul> <li>during storage and transport</li> <li>40 +80 °C</li> <li>environmental category</li> <li>during operation according 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 storage according to IEC 60721</li> <li>1K6 (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>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</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 according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Flandard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Flandard Faults at 450/480 V at insidedelta circuit according to UL</li> <li>usable for Flandard Faults at 450/480 V at insidedelta circuit according to UL</li> <li>usable for Flandard Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V according to UL</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq max = 65 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 1</li></ul>		05 .00 00 Pt
environmental category  • during operation according to IEC 60721  • 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  EMC emitted interference  communication/ Protocol  communication module is supported  • PROFINET high-feature  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus RTU  • PROFIBUS  ULCSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL  — usable for Figh Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL	during operation	-25 +60 °C: Please observe derating at temperatures of 40 °C or above
<ul> <li>during operation according 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 storage according to IEC 60721</li> <li>1K6 (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> </ul> Communication Protocol communication module is supported <ul> <li>PROFINET high-feature</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus RTU</li> <li>PROFIBUS</li> </ul> Yes <ul> <li>PROFIBUS</li> </ul> ULCSA ratings manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>Siemens type: 3VA51, max. 125 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; lq max = 65 kA</li> </ul> Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA		
<ul> <li>• during storage according to IEC 60721</li> <li>• during transport according to IEC 60721</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> </ul> Communication / Protocol <ul> <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 RTU</li> <li>• Modbus RTU</li> <li>• PROFIBUS</li> <li>• PROFIBUS</li> <li>• PROFIBUS</li> <li>• Yes</li> <li>• DIL/CSA ratings</li> </ul> manufacturer's article number <ul> <li>• of circuit breaker</li> <li>• usable for Standard Faults at 460/480 V according to UL</li> <li>• usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>• usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• Usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• Usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• Usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• Usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• Usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	during storage and transport	
during transport according to IEC 60721      EMC emitted interference     acc. to IEC 60947-4-2: Class A, Class B on request  Communication Module is supported     PROFINET standard     PROFINET standard     Yes     EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  Manufacturer's article number      of circuit breaker     — usable for Standard Faults at 460/480 V according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for High Faults at 460/480 V at inside-delta circuit according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for High Faults at 460/480 V at inside-delta circuit according to UL     — usable for High Faults at 460/480 V at inside-delta circuit according to UL     — usable for High Faults at 575/600 V at inside-delta     circuit according to UL     — usable for High Faults at 575/600 V at inside-delta     circuit according to UL     — usable for High Faults at 575/600 V at inside-delta     circuit according to UL     — usable for High Faults at 575/600 V at inside-delta     circuit according to UL     — usable for High Faults at 575/600 V at inside-delta     circuit according to UL     — usable for High Faults at 575/600 V at inside-delta     Siemens type: 3VA51, max. 125 A; lq max = 65 kA     Siemens type: 3VA51, max. 70 A or 3VA51, max. 125 A; lq = 10 kA     Siemens type: 3VA51, max. 125 A; lq max = 65 kA     Siemens type: 3VA51, max. 125 A; lq max = 65 kA	during storage and transport     environmental category	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
communication module is supported  PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus RTU Modbus TCP PROFIBUS  TUL/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 at insidedelta circuit according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 450/480 V at insidedelta circuit according to UL  usable for High Faults at 450/480 V at insidedelta circuit according to UL  usable for High Faults at 450/480 V at insidedelta circuit according to UL  usable for High Faults at 450/480 V at insidedelta circuit according to UL  usable for High Faults at 450/480 V at insidedelta circuit according to UL  usable for High Faults at 575/600 V according to UL  usable for Standard Faults at 575/600 V according to UL  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	• during storage and transport     environmental category     • during operation according to IEC 60721	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
communication module is supported  PROFINET standard PROFINET high-feature Yes EtherNet/IP Modbus RTU Modbus RTU 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 Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard Faults at 575/600 V according to UL  usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  usable for High Faults at 575/600 V at insidedelta circuit according to UL  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	during storage and transport     environmental category     during operation according to IEC 60721     during storage according to IEC 60721	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
communication module is supported  PROFINET standard PROFINET high-feature Yes EtherNet/IP Modbus RTU Modbus RTU 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 Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard Faults at 575/600 V according to UL  usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  usable for High Faults at 575/600 V at insidedelta circuit according to UL  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	• during storage and transport     environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
PROFINET standard PROFINET high-feature PROFINET high-feature PROFINET high-feature Profined	during storage and transport     environmental category	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
PROFINET high-feature  EtherNet/IP  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  Yes  PROFIBUS  Profibus  TulicSA ratings  Tenults at 460/480 V according to UL  Musable for Standard Faults at 460/480 V at insidedelta circuit according to UL  Musable for Standard Faults at 460/480 V at insidedelta circuit according to UL  Musable for Standard Faults at 460/480 V at insidedelta circuit according to UL  Musable for Standard Faults at 460/480 V at insidedelta circuit according to UL  Musable for Standard Faults at 460/480 V at insidedelta circuit according to UL  Musable for Standard Faults at 460/480 V at insidedelta circuit according to UL  Musable for Standard Faults at 450/480 V at insidedelta circuit according to UL  Musable for Standard Faults at 575/600 V according to UL  Musable for Standard Faults at 575/600 V according to UL  Musable for Standard Faults at 575/600 V at insidedelta circuit according to UL  Musable for Standard Faults at 575/600 V at insidedelta circuit according to UL  Musable for High Faults at 575/600 V at insidedelta circuit according to UL  Musable for High Faults at 575/600 V at insidedelta circuit according to UL  Musable for Standard Faults at 575/600 V at insidedelta circuit according to UL  Musable for Standard Faults at 575/600 V at insidedelta circuit according to UL  Musable for High Faults at 575/600 V at insidedelta circuit according to UL	during storage and transport     environmental category	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  Yes  PROFIBUS  Yes  Ves  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  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V at inside-delta circuit according to UL  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA	during storage and transport     environmental category	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request
Modbus RTU  Modbus TCP  PROFIBUS  Yes  Ves  Ves  UL/CSA ratings  manufacturer's article number  of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V at insidedelta circuit according to UL  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA	during storage and transport     environmental category	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedlat circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedlat circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedlat circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> </ul>	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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes
PROFIBUS  PROFIBUS  Wes  The profibus of circuit breaker  Outsuble for Standard Faults at 460/480 V according to UL  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes
manufacturer's article number	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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes
<ul> <li>■ of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> </ul>	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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes
<ul> <li>• of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> </ul>	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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> </ul>	• 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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes
to UL  — usable for High Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V at insidedelta circuit according to UL  — usable for High Faults at 575/600 V at insidedelta circuit according to UL  — usable for High Faults at 575/600 V at insidedelta circuit according to UL  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	• 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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes
<ul> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> </ul>	• 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	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes
<ul> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> </ul>	• 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 RTU     • Modbus TCP     • PROFIBUS  UL/CSA ratings  manufacturer's article number     • of circuit breaker     — usable for Standard Faults at 460/480 V according	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes  Yes  Yes
<ul> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> </ul>	• 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	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes  Yes  Yes
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA</li> <li>Siemens type: 3VA51, max. 125 A; Iq max = 65 kA</li> </ul>	• 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 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 Standard Faults at 460/480 V at inside-	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes  Yes  Yes
— usable for High Faults at 575/600 V at inside-delta circuit according to UL  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	oluring 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             — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL             — usable for High Faults at 460/480 V at insidedelta circuit according to UL             — usable for High Faults at 460/480 V at insidedelta	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes  Yes  Yes
	oluring 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 RTU         • 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 at insidedelta circuit according to UL             — usable for High Faults at 460/480 V at insidedelta circuit according to UL             — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL             — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL             — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL             — usable for Standard Faults at 575/600 V according	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes  Yes  Yes
	o 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          • Mode emitted interference  Communication / Protocol  communication module is supported          • PROFINET standard          • PROFINET high-feature          • EtherNet/IP          • Modbus RTU          • 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 Standard Faults at 460/480 V at insidedelta circuit according to UL              — usable for High Faults at 460/480 V at inside-delta circuit according to UL              — usable for Standard Faults at 575/600 V according to UL              — usable for Standard Faults at 575/600 V according to UL              — usable for High Faults at 575/600 V at inside-delta	-40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A, Class B on request  Yes  Yes  Yes  Yes  Yes  Yes  Yes

delta circuit according to UL	
of the fuse  Very large for Standard Faults up to F75/000 V	Tunor Close DVE / VE may 200 A. I. 40 I.A
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 200 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. 225 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. 200 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. 225 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	15 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	20 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	40 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	30 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	30 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	75 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
safety device type according to IEC 61508-2	Туре В
B10d value	1 000 000
Safety Integrity Level (SIL)	
according to IEC 61508	SIL1
SIL Claim Limit (subsystem) according to EN 62061	SIL 1
performance level (PL) according to EN ISO 13849-1	С
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	60 %
average diagnostic coverage level (DCavg)	90 %
diagnostics test interval by internal test function maximum	1 000 s
PFHD with high demand rate according to EN 62061	1E-6 1/h
PFDavg with low demand rate according to IEC 61508	0.09
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC 61508	20 a
safe state	Open load circuit
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according 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 according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
Certificates/ approvals	
General Product Approval	



Confirmation

















Type Test Certificates/Test Report



## Marine / Shipping

other







Confirmation

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5525-1HF14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5525-1HF14}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-1HF14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5525-1HF14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

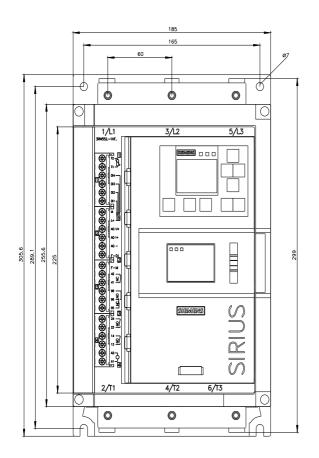
https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-1HF14/char

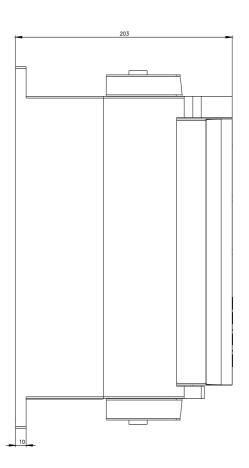
Characteristic: Installation altitude

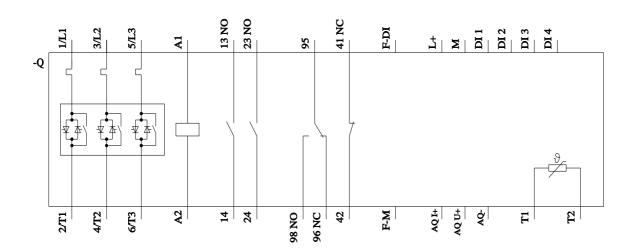
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5525-1HF14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

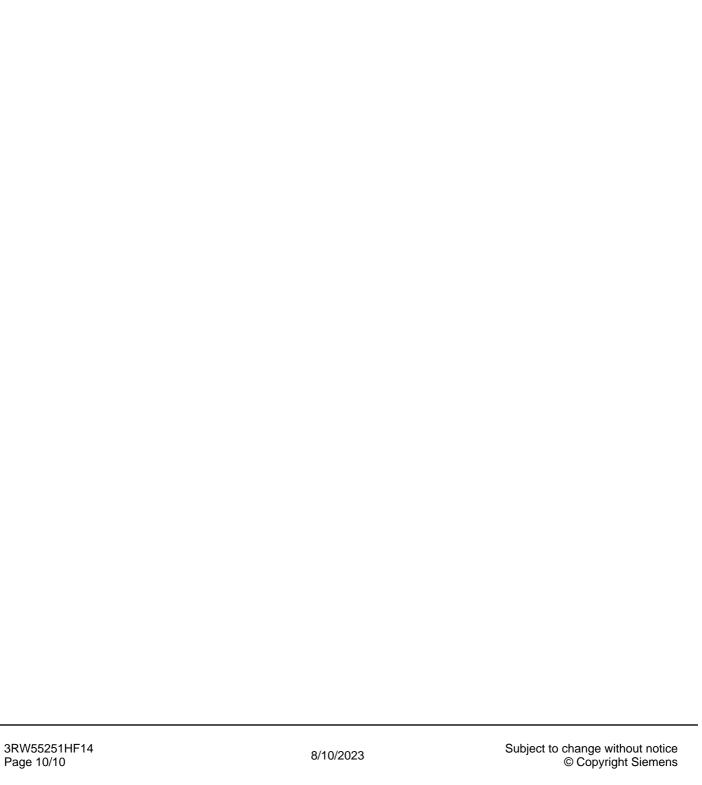
https://support.industry.siemens.com/cs/ww/en/view/101494917







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**Authorized Distributor** 

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