## **SIEMENS**



Data sheet 3RW5546-6HF14



SIRIUS soft starter 200-480 V 370 A, 110-250 V AC, Screw terminals Failsafe

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1334-2; Type of coordination 2, Iq = 65 kA
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN 62061</li> </ul>	3TF68
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN 62061</li> </ul>	3TF68
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN ISO 13849-1</li> </ul>	3TF69
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN ISO 13849-1</li> </ul>	3TF69
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 % 40 100 % 0 2 s
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	
number of parameter sets	3
accuracy class according to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
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	
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	11/22/2010
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
tramp-down (soft stop)     breakaway pulse	Yes
adjustable current limitation	Yes
,	
creep speed in both directions of rotation	Yes Yes
pump ramp down     DC broking	
DC braking     Tracks beating	Yes
motor heating	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.
<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
communication function	Yes
operating measured value display	Yes
event list	Yes
error logbook	Yes
_	
<ul> <li>via software parameterizable</li> </ul>	Yes

<ul> <li>via software configurable</li> </ul>	Yes
screw terminal	Yes
<ul> <li>spring-loaded terminal</li> </ul>	No Juroniculony
<ul> <li>PROFlenergy</li> </ul>	Yes; in connection with PPOFINET Standard and PROFINET High-
£	Feature communication modules
• 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
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	070 A
• at 40 °C rated value	370 A
• at 40 °C rated value minimum	74 A
• at 50 °C rated value	328 A
at 60 °C rated value	300 A
operational current at inside-delta circuit	044.6
• at 40 °C rated value	641 A
• at 50 °C rated value	568 A
• at 60 °C rated value	519 A
operating voltage	200 400 1/
rated value	200 480 V
at inside-delta circuit rated value  valetive pagetive televance of the expecting valtege	200 480 V -15 %
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	-10 /0
relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	110 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	200 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	200 kW
at 400 V at inside-delta circuit at 40 °C rated value	355 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	444 \\
at 40 °C after startup      at 50 °C after startup	111 W
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> </ul>	98 W
· · · · · · · · · · · · · · · · · · ·	90 W
power loss [W] at AC at current limitation 350 %	5 563 W
<ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> </ul>	4 694 W
	4 145 W
at 60 °C during startup  type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	Electronic, hipping in the event of thermal overload of the motor
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
at 50 Hz	110 250 V
♥ at JU 114	110 200 V

4.00.11	440 0704
• at 60 Hz	110 250 V -15 %
relative negative tolerance of the control supply voltage at AC at 50 Hz	/ulencuuvny
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 70
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	150 mA
locked-rotor current at close of bypass contact maximum	0.87 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
with fail-safe	1
parameterizable	4
number of digital outputs	3
Number of digital outputs with fail-safe	1
<ul> <li>number of digital outputs parameterizable</li> </ul>	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	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
Response times	
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	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
• backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side  weight without packaging	5 mm
weight without packaging Connections/ Terminals	10.9 kg
type of electrical connection  • for main current circuit	busbar connection
for main current circuit     for control circuit	
width of connection bar maximum	screw-type terminals 45 mm
with or connection par maximum wire length for thermistor connection	70 11111
wite length for the mistor connection	

• with conductor cross-section = -0.5 mm² mountum • with conductor cross-section = -1.5 mm² mountum • with conductor cross-sections • for DN cable lug for main contacts stranded • for DN cable lug for main contacts stranded • for DN cable lug for main contacts finely stranded  type of connectable conductor cross-sections • for control circuit sold • for main contacts with screw-type terminals • for mail part of control contacts with screw-type terminals • for mail contacts • for		
ype of connectable conductor cross-sections  • for DN cable flug for main contacts shranded  • for DN cable flug for main contacts shranded  • for control circuit solid  • for main contacts with screw-type terminals  • for auxiliary and control contacts w	<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
ype of connectable conductor cross-sections  • for DN cable flug for main contacts shranded  • for DN cable flug for main contacts shranded  • for control circuit solid  • for main contacts with screw-type terminals  • for auxiliary and control contacts w	<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
ype of connectable conductor cross-sections  • for DN cable flug for main contacts shranded  • for DN cable flug for main contacts shranded  • for control circuit solid  • for main contacts with screw-type terminals  • for auxiliary and control contacts w	<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m
For DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections     For control circuit solid     For solid inputs at DC maximum     For main contacts with screw-type terminals     For auxiliary and control contacts wi	type of connectable conductor cross-sections	
Speed connectable conductor cross-sections   of control circuit shell   of control circuit   of control ci	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
of control circuit solid     of control circuit solid     of control circuit solid     of control circuit solid     int (0.5 2.5 mm²), 2x (0.5 1.5 mm²)     vorcessing     of AWG cables for control circuit solid     wire length     obtained the state of and motor maximum     of the digital inputs at DC maximum     of the digital inputs at DC maximum     of main contacts with screw-type terminals     of or auxiliary and control contacts with screw-type terminals     of or auxiliary and control contacts with screw-type terminals     of main contacts with screw-type terminals     of main contacts with screw-type terminals     of cauxiliary and control contacts with screw-type terminals     installation altitude at height above sea level maximum     of main contacts with screw-type terminals     installation altitude at height above sea level maximum     oduring storage and transport     oduring storage and transport     oduring storage and transport     oduring storage according to IEC 60721     oduring storage according to IEC 6072	<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	2x (70 240 mm²)
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid  wire length • between soft starter and motor maximum • of at the digital inputs at DC maximum  1 of main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for fine main contacts with screw-type terminals • for main contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for suiting and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • for withing and control contacts with screw-type terminals • during storage and transport • during storage and	type of connectable conductor cross-sections	
processing	<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
at AWG cables for control circuit solid  wire length between soft starter and motor maximum at the digital inputs at DC maximum for auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of auxiliary and control contacts with screw-type terminals  1 a 24 Nm  1 a 24 Nm  1 a 24 Nm  1 b 24 Nm  1 b 24 Nm  1 c 24 Nm  1 b 24 Nm  1 c	<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
wire length  • between soft starter and motor maximum • at the digital inputs at DC maximum 1 000 m  tightening torque • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature • during peration • during peration • during storage and transport • during peration according to IEC 60721 • during storage and transport • during storage according to IEC 60721 • during storag	processing	
between soft stater and motor maximum     at the digital inputs at DC maximum     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      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 main contacts with screw-type terminals      for main contacts with screw-type terminals      for main contacts with screw-type to for main contacts with screw-type to for main contacts with screw-type to for for contacts with screw-type to for main contacts with screw-type to	at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
at the digital inputs at DC maximum  tightning torque  of main contacts with screw-type terminals of for auxiliary and control contacts with screw-type terminals of for auxiliary and control contacts with screw-type terminals of for auxiliary and control contacts with screw-type terminals of for auxiliary and control contacts with screw-type terminals of for auxiliary and control contacts with screw-type terminals  Ambient conditions  Instalation altitude at height above sea level maximum obvie oduring operation obvie oduring operation obvie oduring operation oduring storage and transport oduring operation according to IEC 60721 of united interference of wire mitted interference  Communication module is supported operation protocol  Type: Class J / L, max. 1200 A; Iq = 18 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J /	wire length	
tightening torque  for main contacts with screw-type terminals  for auxiliary and control contacts with screw-type terminals  tightening torque (libf-in)  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 storage and transport  during operation according to IEC 60721  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  EMC emitted interference  communication/Protocol  communication/Protocol  communication/Protocol  communication/Protocol  communication module is supported  PROFINET standard  PROFINET		800 m
• for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals  tightening torque [libFin] • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for control protect	at the digital inputs at DC maximum	1 000 m
(for auxiliary and control contacts with screw-type terminals     tightening torque [ibFin]     • for or 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 main contacts with screw-type terminals     • during terminals     • during storage according to IEC 60721     • 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 transport according to IEC 60721     • PROFINET standard     • FROFINET standard	tightening torque	
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  • for auxiliary and control contacts with screw-type terminals  installation allitude 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 storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  • Ref (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  * HK (only occasional condensation), 1C2 (no salt mist), 3S2 (sand must not get inside the devices), 3M6  * EMC emitted interference  **Communication module is supported**  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Cass Allows  * PROFIBUS  * Yes  * UL/CSA ratings  **manufacturer's article number  • of the fuse  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  • at 200/230 V at 50° C rated value  • at 200/230 V at 50° C rated value  • at 200/230 V at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • at 200/230 V at inside-delta circuit at 50° C rated value  • a	31	
tightening torque [lbFin]  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals  Installation attitude at height above sea level maximum ambient conditions  Installation attitude 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 transport according to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET ingh-feature • EtheriNet/IP • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-d	31	0.8 1.2 N·m
• 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  Amblent conditions installation altitude at height above sea level maximum  ambient temperature • during operation • during sorage 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 • during transport according to IEC 60721 • during transport according to IEC 60721 • REKC emitted interference  Communication/ Protocol  Communication/ Protocol  Communication/ Protocol  Communication module is supported • PROFINET standard • PROFINES • EtherNet/IP • Modbus TCP • PROFIBUS  UL/CSA ratings  Multicolor fligh Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up		
For auxiliary and control contacts with screw-type terminals		124 210 lbf.in
Ambient conditions 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 transport according to IEC 60721  EMC emitted interference  communication Protocol  communication Protocol  communication Protocol  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET standard  PROFINET standard  PROFINED  Modbus RTU  Modbus RTU  Ses  High-feature  General Standard Faults up to 575/600 V according to UL  Ses Usable for High Faults up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Eaults at inside-delta circuit up to 575/600 V according to UL  Ses Usable for High Eaults at inside-delta circuit up to 575/600	· · · · · · · · · · · · · · · · · · ·	
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during operation     during storage and transport     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     during transport according to IEC 60721     during transport according to IEC 60721     EMC emitted interference     communication Protocol     communication module is supported     PROFINET standard     PROFINET standard     PROFINET standard     PROFINET high-feature     EitherNet/IP     Modobus TCP     PPROFIBUS     Wes     PROFIBUS     Tusable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta		
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mist), 352 (sand must not get into the devices), 3M6  • 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 the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Flaph Faults at inside-delta	environmental category	
<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>• ZKZ, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul> EMC emitted interference <ul> <li>communication Protocol</li> </ul> communication module is supported <ul> <li>• PROFINET standard</li> <li>• PROFINET high-feature</li> <li>• EtherNet/IP</li> <li>• Modbus RTU</li> <li>• Modbus TCP</li> <li>• PROFIBUS</li> </ul> Yes <ul> <li>• PROFIBUS</li> </ul> UL/CSA ratings manufacturer's article number <ul> <li>• of the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Fligh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL <ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circ</li></ul></li></ul>	<ul> <li>during operation according to IEC 60721</li> </ul>	
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<ul> <li>during transport according to IEC 60721</li> <li>2KZ, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>EMC emitted interference</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul> Communication/ Protocol <ul> <li>communication module is supported</li> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>EtherNet/IP</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> PROFIBUS <ul> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> UL/CSA ratings <ul> <li>manufacturer's article number</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>poperating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul> at 220/230 V at inside-delta circuit at 50 °C rated value <ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>by the form of the fuse of the</li></ul>	<ul> <li>during storage according to IEC 60721</li> </ul>	
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communication / Protocol  communication module is supported  PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS  PROFIBUS  Wes PROFIBUS  Tyes  IL/CSA ratings  manufacturer's article number of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  at 200/208 V at 50 °C rated value at 480/480 V at 50 °C rated value at 480/480 V at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value		
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PROFINET standard PROFINET high-feature PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS  PROFIBUS  Wes PROFIBUS  Wes PROFIBUS  Wes  PROFIBUS  Tyes  UL/CSA ratings  manufacturer's article number of the fuse  — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  —		
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EtherNet/IP  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  Yes  Yes  PROFIBUS  Wes  UL/CSA ratings  manufacturer's article number  Modbus TCP  Modbus TCP  Modbus TCP  Modbus TCP  Modbus TCP  Yes  Yes  Yes  UL/CSA ratings  manufacturer's article number  Modbus TCP  Modbus TCP  Modbus TCP  Yes  Yes  UL/CSA ratings  manufacturer's article number  Modbus TCP  Modbus TCP  Yes  Yes  UL/CSA ratings  manufacturer's article number  Modbus TCP  Modbus Tyes  Type: Class J / L, max. 1200 A; Iq = 18 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Modbus TCP  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: C		
Modbus RTU  Modbus TCP  PROFIBUS  Yes  Yes  Yes  Yes  Yes  Ves  UL/CSA ratings  manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Digh Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  at 200/208 V at 50 °C rated value  at 200/208 V at 50 °C rated value  at 200/208 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value	<u> </u>	
Modbus TCP     PROFIBUS  Ves  UL/CSA ratings  manufacturer's article number     of the fuse         — usable for Standard Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL         — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors         • at 200/208 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 200/208 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value		
PROFIBUS  Wes  UL/CSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value		
manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value		
manufacturer's article number		1 53
of the fuse          — usable for Standard Faults up to 575/600 V         according to UL          — usable for High Faults up to 575/600 V         according to UL          — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL          — usable for High Faults at inside-delta circuit up to 575/600 V according to UL          — usable for High Faults at inside-delta circuit up to 575/600 V according to UL          — usable for High Faults at inside-delta circuit up to 575/600 V according to UL          Operating power [hp] for 3-phase motors          • at 200/208 V at 50 °C rated value          • at 460/480 V at 50 °C rated value          • at 200/208 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value          • at 220/230 V at inside-delta circuit at 50 °C rated value		
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, m</li></ul>		
according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value		Type: Close 1/1 may 4200 A. Ia = 40 I/A
according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  100 hp  at 200/208 V at 50 °C rated value  at 220/230 V at 50 °C rated value  at 200/208 V at 50 °C rated value  at 200/208 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value	according to UL	
circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value	according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA
to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value		Type: Class J / L, max. 1200 A; Iq = 18 kA
<ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>		Type: Class J / L, max. 1200 A; Iq = 100 kA
<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	operating power [hp] for 3-phase motors	
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>250 hp</li> <li>200 hp</li> <li>200 hp</li> </ul>	<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	100 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>200 hp</li> <li>200 hp</li> </ul>	<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	125 hp
value  • at 220/230 V at inside-delta circuit at 50 °C rated value  200 hp	<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	250 hp
value		200 hp
		200 hp
→ at 150/150 V at monde-derita en cult at 50 O Tated Too Hp		450 hp

value	
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	K300-B300
	Time D
safety device type according to IEC 61508-2	Type B
B10d value	648 000
Safety Integrity Level (SIL)	011.4
according to IEC 61508	SIL1
SIL Claim Limit (subsystem) according to EN 62061	SIL 1
performance level (PL) according to EN ISO 13849-1	C
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 y
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 s

Certificates/ approvals

## **General Product Approval**





Confirmation







EMC For use in hazardous locations Declaration of Conformity Test Certificates Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping other









## **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=3RW5546-6HF14

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5546-6HF14}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HF14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5546-6HF14&lang=en

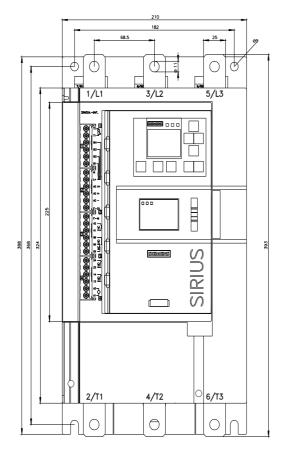
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HF14/char

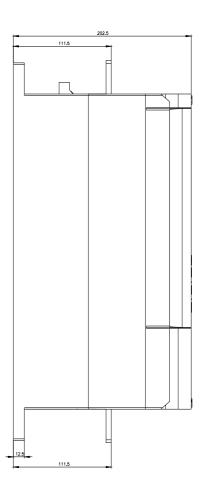
Characteristic: Installation altitude

 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5546-6HF14\&objecttype=14\&gridview=view1}$ 

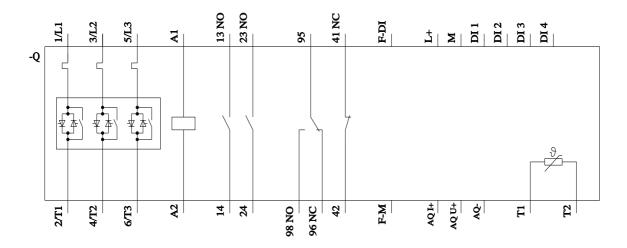
Simulation Tool for Soft Starters (STS)

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









last modified: 5/13/2022 **C** 

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