SIEMENS

Data sheet 3RW5553-6HA16



SIRIUS soft starter 200-690 V 720 A, 110-250 V AC Screw terminals

Figure similar

product brand name product category product designation product type designation manufacturer's article number

- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFINET high-feature usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter 3RW55

3RW5980-0HF00

3RW5980-0CS00

3RW5950-0CH00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

3NB3351-1KK26; Type of coordination 2, Iq = 65 kA

3NC3343-1U; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%] stopping voltage [%]

start-up ramp time of soft starter

ramp-down time of soft starter

start torque [%]

stopping torque [%]

torque limitation [%]

current limiting value [%] adjustable

breakaway voltage [%] adjustable

breakaway time adjustable

number of parameter sets

accuracy class according to IEC 61557-12

certificate of suitability

- CE marking
- UL approval
- CSA approval

20 ... 100 %

50 %; non-adjustable

0 ... 360 s

0 ... 360 s

10 ... 100 %

10 ... 100 %

20 ... 200 %

125 ... 800 %

40 ... 100 %

0 ... 2 s

3

5 %

Yes

Yes

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 CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 trip class 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 0 ... 255 s idle time adjustable insulation voltage rated value 690 V degree of pollution 3, acc. to IEC 60947-4-2 impulse voltage rated value blocking voltage of the thyristor maximum 1 800 V service factor 1.15 surge voltage resistance rated value 8 kV maximum permissible voltage for safe isolation • between main and auxiliary circuit 690 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 AC 53a utilization category according to IEC 60947-4-2 reference code according to IEC 81346-2 **Substance Prohibitance (Date)** 02/11/2019 product function Yes • ramp-up (soft starting) Yes ramp-down (soft stop) • breakaway pulse Yes • adjustable current limitation Yes • creep speed in both directions of rotation Yes • pump ramp down Yes DC braking Yes · motor heating Yes slave pointer function Yes • trace function Yes • intrinsic device protection Yes Yes; Full motor protection (thermistor motor protection and electronic · motor overload protection motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick • inside-delta circuit Yes; Only up to 600 V operating voltage auto-RESET Yes Yes manual RESET remote reset Yes • communication function Yes operating measured value display Yes event list Yes Yes error logbook • via software parameterizable Yes Yes • via software configurable screw terminal Yes spring-loaded terminal Yes; in connection with the PROFINET Standard and PROFINET High- PROFlenergy Feature communication modules • firmware update Yes • removable terminal for control circuit Yes voltage ramp Yes Yes • torque control 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 • at 40 °C rated value	720 A
at 40 °C rated value at 40 °C rated value minimum	144 A
at 50 °C rated value at 50 °C rated value	641 A
at 60 °C rated value	580 A
operational current at inside-delta circuit	300 A
at 40 °C rated value	1 247 A
at 50 °C rated value	1 110 A
at 60 °C rated value	1 005 A
operating voltage	
• rated value	200 690 V
 at inside-delta circuit rated value 	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	200 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	400 kW
• at 400 V at 40 °C rated value	400 kW
at 400 V at inside-delta circuit at 40 °C rated value	710 kW
• at 500 V at 40 °C rated value	500 kW
at 500 V at inside-delta circuit at 40 °C rated value	800 kW
at 690 V at 40 °C rated value Operating fraguency 4 rated value	710 kW 50 Hz
Operating frequency 2 rated value	60 Hz
Operating frequency 2 rated value	-10 %
relative negative tolerance of the operating frequency 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 70, redutive to set le
• at 40 °C after startup	216 W
• at 50 °C after startup	170 W
at 60 °C after startup	139 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	11 534 W
at 50 °C during startup	9 773 W
at 60 °C during startup	8 497 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
-	

holding current in bypass operation rated value
locked-rotor current at close of bypass contact maximum
maximam

inrush current peak at application of control supply voltage maximum

duration of inrush current peak at application of control supply voltage

design of the overvoltage protection

design of short-circuit protection for control circuit

210 mA 1 A

44 A

1.7 ms

Varistor

4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply

Inputs/ Outputs	
number of digital inputs	4
 parameterizable 	4
 number of digital outputs 	4
 number of digital outputs parameterizable 	3
 number of digital outputs not parameterizable 	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
 at DC-13 at 24 V rated value 	1 A

Installation/ mounting/ dimensions		
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)	
fastening method	screw fixing	
height	764 mm	
width	478 mm	
depth	241 mm	
required spacing with side-by-side mounting		
forwards	10 mm	
backwards	0 mm	
upwards	100 mm	
downwards	75 mm	
at the side	5 mm	
weight without packaging	45 kg	

Can	nectio	mal T		
COIL		115/ 14	9111111	FILE

type	of c	loctric	al cor	nection

• 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 DIN cable lug for main contacts stranded

• for DIN cable lug for main contacts finely stranded

type of connectable conductor cross-sections

for control circuit solid

• for control circuit finely stranded with core end processing

• at AWG cables for control circuit solid

wire length

• between soft starter and motor maximum

• 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

tightening torque [lbf·in]

• for main contacts with screw-type terminals

• for auxiliary and control contacts with screw-type terminals

busbar connection

screw-type terminals

55 mm

50 m

150 m

250 m

2x (50 ... 240 mm²)

2x (70 ... 240 mm²)

1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)

1x (20 ... 12), 2x (20 ... 14)

800 m 1 000 m

20 ... 35 N·m

0.8 ... 1.2 N·m

177 ... 310 lbf·in 7 ... 10.3 lbf·in

Ambient conditions

installation altitude at height above sea level maximum ambient temperature - during operation - during operation - 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 - during transport according to IEC 60721 - during transport according to IEC 60721 - EMC emitted interference - during transport according to IEC 60721 - EMC emitted interference - during transport according to IEC 60721 - PROFINET standard - PROFINET standard - PROFINET standard - PROFINET standard - PROFINET high-feature - Emerketip - Modous RTU - Modous RTU - 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 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 at 50°C rated value - al 2002/20 V at 50°C rated value - al 2002/20 V at 50°C rated value - al 2002/20 V at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al 457/600 V at inside-delta circuit at 50°C rated value - al		
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EtherNet/IP Modbus RTU Modbus TCP Modb		Yes
EtherNet/IP Modbus RTU Modbus TCP Modb	 PROFINET high-feature 	Yes
Modbus TCP PROFIBUS PROFIBUS Ves PROFIBUS Type: Class J / L, max. 2000 A; Iq = 42 kA Type: Class J / L, max. 2000 A; Iq = 100 kA according to UL		Yes
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	manufacturer's article number	
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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 poperating power [hp] for 3-phase motors • at 220/230 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 220/230 V at 50 °C rated value • at 220/230 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 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 475/600 V at of inside-delta circuit at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 676/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 675/600 V at inside-delta circuit at 50 °C rated value • at 750/600 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 675/600 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 260/480 V at inside-delta circuit at 50 °C rated value • at 260/480 V at inside-delta circuit at 50 °C rated value • at 260/480 V at inside-delta circuit at		Type: Class J / L, max. 2000 A; Iq = 42 kA
circuit up to 675/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power (hp] for 3-phase motors • at 220/230 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 450/480 V at 50 °C rated value • at 420/208 V at inside-delta circuit at 50 °C rated value • at 220/230 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 420/280 V at inside-delta circuit at 50 °C rated value • at 4575/600 V at inside-delta circuit at 50 °C rated value • at 4575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility • ATEX certificate of suitability • ATEX Yes • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU type of protection according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to OTEX T1 value for proof test interval or service life		Type: Class J / L, max. 2000 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 460/480 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 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 600-8300-8300 Safety related data protection class IP on the front according to IEC 61508 according to ATEX Yes according to ATEX directive 2014/34/EU by 58 18 ATEX F 003 X If (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], If (2)D [Ex tb Db] [Ex pxb		Type: Class J / L, max. 2000 A; Iq = 42 kA
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at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 220/230 V at 50 °C rated value at 220/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 4575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta	operating power [hp] for 3-phase motors	
at 460/480 V at 50 °C rated value at 275/600 V at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX e IECEX e according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 500 hp 400 hp	 at 200/208 V at 50 °C rated value 	200 hp
at 257/600 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 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 4578/600 V at inside-delta circuit at 50 °C rated value at 378/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX certificate of suitability ATEX Elecex according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 700 hp 400 hp 450 hp 4	 at 220/230 V at 50 °C rated value 	250 hp
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 460/480 V at inside-delta circuit at 50 °C rated value at 675/600 V at inside-delta circuit at 50 °C rated value at 675/600 V at inside-delta circuit at 50 °C rated value at 675/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility acc. to IEC 60947-4-2 ATEX certificate of suitability ATEX i IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU lardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to EC 61508 relating to ATEX PFDavg with low demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 450 hp 45	 at 460/480 V at 50 °C rated value 	·
value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility • ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU landware fault tolerance according to IEC 61508 relating to ATEX PPDavg with low demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 450 hp 450 hp 450 hp 450 hp 450 hp 1 250 hp 2 300-B300 BPO0 BR300-B300 IPP00 acc. to IEC 60947-4-2 ATEX Yes Yes Yes 9 SW 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 0 008 SECTION TO THE ACCORDING TO TH		·
value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility • ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU lardware fault tolerance according to IEC 61508 relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life	value	
value • at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility • ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to EC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 1 250 hp	value	
value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility • ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life IP00 BP00 C0947-4-2 Yes Yes Yes Yes Yes Yes Yes Ye	value	
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electromagnetic compatibility acc. to IEC 60947-4-2 ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDayg with low demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to IEC 60947-4-2 Yes Yes Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 0 0008 SE-7 1/h SIL1		JD20
certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life Yes Yes Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 0 0 0.008 SE-7 1/h SIL1	60529	
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 ATEX IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X II (2)G [Ex eb 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 PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life Yes SIL1 		
 IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] I (M3) [Ex db Mb] I (M3		W.
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PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 0.008 5E-7 1/h SIL1	hardware fault tolerance according to IEC 61508	
PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 5E-7 1/h SIL1	PFDavg with low demand rate according to IEC 61508	0.008
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 3 y	PFHD with high demand rate according to EN 62061	5E-7 1/h
T1 value for proof test interval or service life 3 y	Safety Integrity Level (SIL) according to IEC 61508	SIL1
	T1 value for proof test interval or service life	3 y

Certificates/ approvals

General Product Approval





Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other





Confirmation

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=3RW5553-6HA16

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5553-6HA16

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA16

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5553-6HA16&lang=en

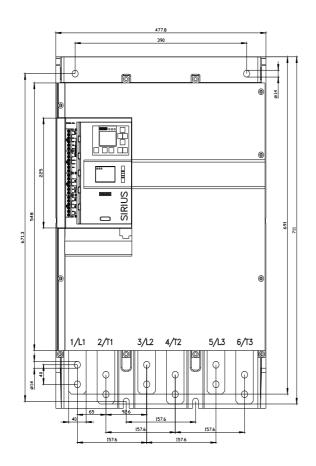
Characteristic: Tripping characteristics, I2t, Let-through current

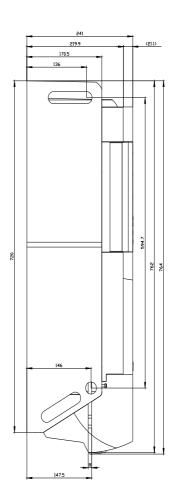
https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA16/char

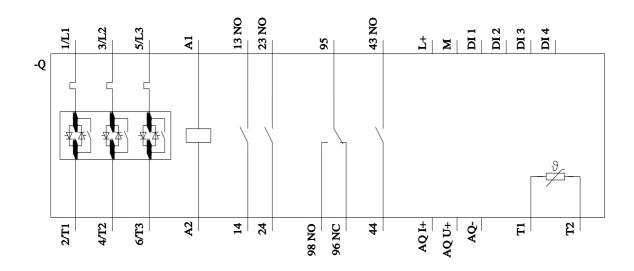
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







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