SIEMENS

Data sheet

3RW5217-1AC15



SIRIUS soft starter 200-600 V 38 A, 110-250 V AC Screw terminals Analog output

product brand name	SIRIUS	
product category	Hybrid switching devices	
product designation	Soft starter	
product type designation	3RW52	
manufacturer's article number		
 of standard HMI module usable 	<u>3RW5980-0HS00</u>	
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>	
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>	
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>	
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>	
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>	
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>	
 of circuit breaker usable at 400 V 	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10	
 of circuit breaker usable at 500 V 	3RV2032-4WA10; Type of coordination 1, Iq = 10 kA, CLASS 10	
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3RV2032-4RA10: Type of coordination 1. Iq = 65 kA. CLASS 10</u>	
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10</u>	
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA	
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>	
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1820-0: Type of coordination 2. Iq = 65 kA</u>	
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>	
General technical data		
starting voltage [%]	30 100 %	
stopping voltage [%]	50 50 %	
start-up ramp time of soft starter	0 20 s	
current limiting value [%] adjustable	130 700 %	
certificate of suitability		
CE marking	Yes	
UL approval	Yes	
CSA approval	Yes	
product component is supported		
HMI-Standard	Yes	
HMI-High Feature	Yes	
product feature integrated bypass contact system	Yes	

number of controlled phases	3		
trip class	 CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2		
buffering time in the event of power failure			
for main current circuit	100 ms		
for control circuit			
	100 ms		
insulation voltage rated value	600 V		
degree of pollution	3, acc. to IEC 60947-4-2		
impulse voltage rated value	6 kV		
blocking voltage of the thyristor maximum service factor	1 600 V 1		
surge voltage resistance rated value	6 kV		
 maximum permissible voltage for safe isolation between main and auxiliary circuit 	600 V		
shock resistance			
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting		
utilization category acc. to IEC 60947-4-2	15 mm to 6 Hz; 2g to 500 Hz AC 53a		
reference code acc. to IEC 81346-2	AC 53a Q		
Substance Prohibitance (Date)	15.02.2018 00:00:00		
product function			
• ramp-up (soft starting)	Yes		
 ramp-down (soft stop) 	Yes		
	Yes		
Soft Torque adjustable current limitation			
adjustable current limitation	Yes		
• pump ramp down	Yes		
intrinsic device protection	Yes		
 motor overload protection 	Yes; Electronic motor overload protection		
 evaluation of thermistor motor protection 	No		
inside-delta circuit	Yes		
auto-RESET	Yes		
manual RESET	Yes		
remote reset	Yes; By turning off the control supply voltage		
 communication function 	Yes		
 operating measured value display 	Yes; Only in conjunction with special accessories		
 error logbook 	Yes; Only in conjunction with special accessories		
 via software parameterizable 	No		
 via software configurable 	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard communication module		
 firmware update 	Yes		
 removable terminal for control circuit 	Yes		
torque control	No		
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)		
Power Electronics			
operational current			
• at 40 °C rated value	38 A		
• at 50 °C rated value	34 A		
• at 60 °C rated value	31 A		
operational current at inside-delta circuit			
• at 40 °C rated value	65.8 A		
• at 50 °C rated value	58 A		
• at 60 °C rated value	52.8 A		
operating voltage			
rated value	200 600 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 	11 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	18.5 kW
 at 400 V at 40 °C rated value 	18.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	30 kW
 at 500 V at 40 °C rated value 	22 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	37 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 %
adjustable motor current	
at rotary coding switch on switch position 1	15.5 A
at rotary coding switch on switch position 1	17 A
 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 	18.5 A
 at rotary coding switch on switch position 4 	20 A
at rotary coding switch on switch position 5	21.5 A
 at rotary coding switch on switch position 6 	23 A
• at rotary coding switch on switch position 7	24.5 A
 at rotary coding switch on switch position 8 	26 A
 at rotary coding switch on switch position 9 	27.5 A
 at rotary coding switch on switch position 10 	29 A
 at rotary coding switch on switch position 11 	30.5 A
 at rotary coding switch on switch position 12 	32 A
 at rotary coding switch on switch position 13 	33.5 A
 at rotary coding switch on switch position 14 	35 A
 at rotary coding switch on switch position 15 	36.5 A
 at rotary coding switch on switch position 16 	38 A
• minimum	15.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	26.8 A
 for inside-delta circuit at rotary coding switch on switch position 2 	29.4 A
 for inside-delta circuit at rotary coding switch on switch position 3 	32 A
 for inside-delta circuit at rotary coding switch on switch position 4 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	37.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	39.8 A
 for inside-delta circuit at rotary coding switch on switch position 7 	42.4 A
 for inside-delta circuit at rotary coding switch on switch position 8 	45 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on 	47.6 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	50.2 A 52.8 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	52.8 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	58 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	60.6 A
 switch position 14 for inside-delta circuit at rotary coding switch on 	63.2 A
switch position 15	

 for inside-delta circuit at rotary coding switch on 	65.8 A		
switch position 16			
 at inside-delta circuit minimum 	26.8 A		
minimum load [%]	15 %; Relative to smallest settable le		
power loss [W] for rated value of the current at AC			
• at 40 °C after startup	23 W		
• at 50 °C after startup	22 W		
• at 60 °C after startup	21 W		
power loss [W] at AC at current limitation 350 %			
 at 40 °C during startup 	628 W		
 at 50 °C during startup 	526 W		
 at 60 °C during startup 	464 W		
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 %		
	10 %		
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 70		
	-15 %		
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %		
relative positive tolerance of the control supply	- 10 %		
voltage at AC at 60 Hz			
control supply voltage frequency	- 50 60 Hz		
relative negative tolerance of the control supply	-10 %		
voltage frequency			
relative positive tolerance of the control supply voltage frequency	10 %		
control supply current in standby mode rated value	- 30 mA		
	75 mA		
holding current in bypass operation rated value			
locked-rotor current at close of bypass contact maximum	0.17 A		
inrush current peak at application of control supply voltage maximum	12.2 A		
duration of inrush current peak at application of control supply voltage	2.2 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	1		
number of inputs for thermistor connection	0		
number of digital outputs	3		
C .			
not parameterizable	2		
digital output version	2 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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
	275 mm		
height			
width	170 mm		
depth	152 mm		
required spacing with side-by-side mounting			
 forwards 	10 mm		

h e el sue ade	0	
backwards	0 mm	
• upwards	100 mm	
• downwards	75 mm	
at the side	5 mm	
weight without packaging	2.3 kg	
Connections/ Terminals		
type of electrical connection for main current circuit 		
	screw-type terminals	
for control circuit type of connectable conductor cross-sections	screw-type terminals	
for main contacts		
- solid	$2x(40 - 25 mm^2) 2x(25 - 40 mm^2)$	
	$2x (1.0 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$	
 finely stranded with core end processing at AWG cables for main current circuit solid 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8)	
type of connectable conductor cross-sections	ZA (10 12), ZA (17 0)	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
 for control circuit solid for control circuit finely stranded with core end 	$1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 2.5 \text{ mm}^2)$ $1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$	
processing	1 (0.5 2.5 mm), 22 (0.5 1.5 mm)	
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)	
wire length		
 between soft starter and motor maximum 	800 m	
 at the digital inputs at AC maximum 	100 m	
tightening torque		
 for main contacts with screw-type terminals 	2 2.5 N·m	
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m	
tightening torque [lbf·in]		
 for main contacts with screw-type terminals 	18 22 lbf·in	
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in	
Ambient conditions		
	5 000 m; Derating as of 1000 m, see catalog	
Ambient conditions	5 000 m; Derating as of 1000 m, see catalog	
Ambient conditions installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or above	
Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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) 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/ Protocol	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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) 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • EMC emitted interference	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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) 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/ Protocol Communication module is supported • PROFINET standard	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/ Protocol Communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes Yes 	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication / Protocol Communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes Yes Yes	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes Yes Yes	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/ Protocol Communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes Yes Yes	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/ Protocol Communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes Yes Yes	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • 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	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes Yes Yes Yes	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according	 -25 +60 °C; Please observe derating at temperatures of 40 °C or above -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 Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 	

delta circuit according to UL 							
according to UL define to UL de				107.10 70.1			
inside-delta circuit according to UL I - usable for Standard Faults up to 575/600 V according to UL L - usable for Standard Faults up to 575/600 V according to UL L - usable for Standard Faults up to 575/600 V according to UL L - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL L - usable for Vision Faults at inside-delta circuit up to 575/600 V according to UL L - usable for Vision Faults at inside-delta circuit up to 575/600 V according to UL L - usable for Vision Faults at inside-delta circuit up to 575/600 V according to UL Depending Dower (PI) for 3-phase motors A t 200/208 V at 50 °C rated value A t 200/208 V at 50 °C rated value A t 220/230 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 460/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 450/480 V at inside-delta circuit at 50 °C rated value A t 575/600 V at inside-delta circuit at 50 °C rated value A t 575/600 V at inside-delta circuit at 50 °C rated value A t 575/600 V at inside-delta circuit at 50 °C rated value A t 575/600 V at inside-delta circuit at 50 °C rated value A t 575/600 V at inside-delta circui			Siemens type: 3RV	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA			
			Siemens type: 3RV	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA			
according to UL Type: Class J / L, max. 150 A; lq = 100 kA	 of the fuse 						
according to UL 			Type: Class RK5 /	K5, max. 150 A; Iq = 5 kA			
dreuit up to 575/600 V according to U - usable for High Faults at inside-delta circuit up to 5000 V according to U per effective of the set of t			Type: Class J / L, r	nax. 150 A; lq = 100 kA			
to 575/600 V according to UL Index operating power [thp] for 3-phase motors 10 hp at 200/200 V at 50 °C rated value 10 hp at 480/480 V at 50 °C rated value 20 hp at 200/200 V at 50 °C rated value 20 hp at 200/200 V at inside-delta circuit at 50 °C rated value 20 hp at 420/400 V at inside-delta circuit at 50 °C rated value 20 hp at 450/480 V at inside-delta circuit at 50 °C rated value 20 hp at 450/480 V at inside-delta circuit at 50 °C rated value 20 hp at 450/480 V at inside-delta circuit at 50 °C rated value 50 hp at 457/600 V at inside-delta circuit at 50 °C rated value 50 hp eat 657/600 V at inside-delta circuit at 50 °C rated value 120 at 657/600 V at inside-delta circuit at 50 °C rated value 50 hp ecortact rating of auxillary contacts according to UL R300-B300 Safety related data 120 protection class IP on the front acc. to IEC 60529 1P20 functor approvals 10 hp cortificates/ approvals 10 hp acc 10 hp acc 10 hp			Type: Class RK5 /	Type: Class RK5 / K5, max. 150 A; lq = 5 kA			
• at 200/208 V at 50 °C rated value 10 hp • at 220/230 V at 50 °C rated value 10 hp • at 400/440 V at 50 °C rated value 20 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 30 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 20 hp • at 400/440 V at 50 °C rated value 30 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 20 hp • at 400/440 V at inside-delta circuit at 50 °C rated value 20 hp • at 400/440 V at inside-delta circuit at 50 °C rated value 40 hp • at 400/440 V at inside-delta circuit at 50 °C rated value 800-8300 • at 400/440 V at inside-delta circuit at 50 °C rated value 800-8300 • at trip of auxiliary contacts according to UL 8200-8300 • at protection class IP on the front acc. to IEC 60529 IP20 fordersides/ approval Inger-safe, for vertical contact from the front electromagnetic compatibility in accordance with IEC 60947.4-2 cortificetes/ approval Image: Safe, for vertical contact from the front for formity Image: Safe, for vertical contact from the front for formity Image: Safe, for vertical contact from the front for formity Image: Safe, for vertical contact from the front for formity Image: Safe, for vertical contact from the front for	— usable for to 575/600 V	High Faults at inside-delta circuit up according to UL	Type: Class J / L, r	nax. 150 A; Iq = 100 kA			
• at 220/230 V at 50 °C rated value 10 hp • at 440/480 V at 50 °C rated value 20 hp • at 220/230 V at inside-delta circuit at 50 °C rated 30 hp • at 220/230 V at inside-delta circuit at 50 °C rated 20 hp • at 460/480 V at inside-delta circuit at 50 °C rated 20 hp • at 460/480 V at inside-delta circuit at 50 °C rated 40 hp • at 460/480 V at inside-delta circuit at 50 °C rated 50 hp • at 460/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 460/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 450/480 V at inside-delta circuit at 50 °C rated 50 hp • at 55/500 V at inside-delta circuit at 50 °C rated 1920	operating power [hp	o] for 3-phase motors					
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• at 575/600 V at 50 °C rated value 30 hp • at 202/203 V at inside-delta circuit at 50 °C rated value 20 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 20 hp • at 450/480 V at inside-delta circuit at 50 °C rated value 40 hp • at 575/600 V at inside-delta circuit at 50 °C rated value 40 hp • at 575/600 V at inside-delta circuit at 50 °C rated value 50 hp • at 575/600 V at inside-delta circuit at 50 °C rated value 50 hp • contact rating of auxiliary contacts according to UL R300-B300 • at 575/600 V at inside-delta circuit at 50 °C rated value 50 hp • contact rating of auxiliary contacts according to UL R300-B300 • at 575/600 V at inside-delta circuit at 50 °C rated value 15 hp • protection calss IP on the front acc. to IEC 60529 IP20 fuence rate rating of auxiliary contacts according to UL R300-B300 • at 575/600 V at inside-delta circuit at 50 °C rated value IP20 fuence rating of auxiliary contacts according to UL R300-B300 • at 575/600 V at inside-delta circuit at 50 °C rated value IP20 fuence rate contact trains of the front acc. to IEC 60529 IP20 • at 575/600 V at inside-delta circuit at 50 °C rated value IP20 • at 575/600 V at inside-delta circuit at 50 °C rated value IP20 • at 575/600 V at inside-delta circuit	• at 220/230 V a	t 50 °C rated value					
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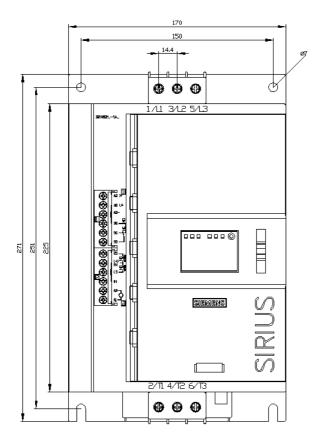
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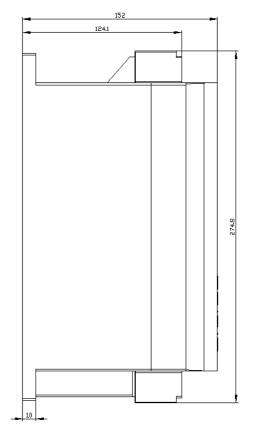
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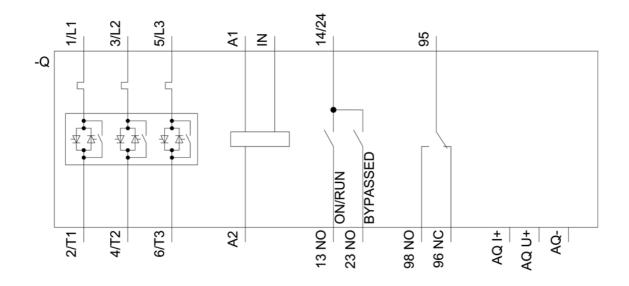
Characteristic: Installation altitude

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