SIEMENS

Data sheet

3RW5076-6TB14



SIRIUS soft starter 200-480 V 470 A, 110-250 V AC Screw terminals Thermistor input

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW50			
manufacturer's article number				
 of standard HMI module usable 	<u>3RW5980-0HS01</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 	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA			
 of circuit breaker usable at 500 V 	<u>3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA</u>			
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 436-2; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 340-8; Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1076</u>			
 of line contactor usable up to 690 V 	<u>3RT1076</u>			
General technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 %; non-adjustable			
start-up ramp time of soft starter	0 20 s			
ramp-down 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				
HMI-High Feature	No			
 is supported HMI-Standard 	Yes			
 is supported HMI-High Feature 	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	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					
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 600 V				
service factor	1				
	6 KV				
surge voltage resistance rated value	0.00				
maximum permissible voltage for protective separation	600.1/				
between main and auxiliary circuit shock resistance	600 V				
	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
utilization category according to IEC 60947-4-2	AC-53a				
reference code according to IEC 81346-2	Q 00/22/2010				
Substance Prohibitance (Date)	09/23/2019 Lead - 7439-92-1				
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof - Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6				
product function					
• ramp-up (soft starting)	Yes				
• ramp-down (soft stop)	Yes				
• Soft Torque	Yes				
adjustable current limitation	Yes				
• pump ramp down	Yes				
intrinsic device protection	Yes				
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor				
	overload protection)				
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick				
● 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				
voltage ramp	Yes				
torque control	No				
analog output	No				
Power Electronics					
operational current					
• at 40 °C rated value	470 A				
• at 50 °C rated value	416 A				
• at 60 °C rated value	380 A				
operating voltage					
rated value	200 480 V				
relative negative tolerance of the operating voltage	-15 %				
relative positive tolerance of the operating voltage	10 %				
operating power for 3-phase motors					
• at 230 V at 40 °C rated value	132 kW				
• at 400 V at 40 °C rated value	250 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 	200 A				

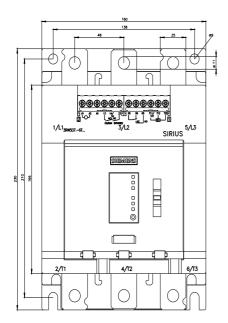
 at rotary coding switch on switch position 2 	218 A				
 at rotary coding switch on switch position 3 	236 A				
 at rotary coding switch on switch position 4 	254 A				
 at rotary coding switch on switch position 5 	272 A				
 at rotary coding switch on switch position 6 	290 A				
 at rotary coding switch on switch position 7 	308 A				
at rotary coding switch on switch position 8	326 A				
 at rotary coding switch on switch position 9 	344 A				
 at rotary coding switch on switch position 10 	362 A				
	380 A				
at rotary coding switch on switch position 11					
at rotary coding switch on switch position 12	398 A				
 at rotary coding switch on switch position 13 	416 A				
 at rotary coding switch on switch position 14 	434 A				
 at rotary coding switch on switch position 15 	452 A				
 at rotary coding switch on switch position 16 	470 A				
• minimum	200 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	56 W				
• at 50 °C after startup	44 W				
• at 60 °C after startup	37 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	5 344 W				
• at 50 °C during startup	4 438 W				
• at 60 °C during startup	3 876 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				
• at 60 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz	110 250 V -15 %				
relative negative tolerance of the control supply voltage at					
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at	-15 %				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at	-15 % 10 %				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at	-15 % 10 % -15 %				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz	-15 % 10 % -15 % 10 %				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage	-15 % 10 % -15 % 10 % 50 60 Hz				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply contract of the control supply voltage frequency	-15 % 10 % -15 % 10 % 50 60 Hz -10 %				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 %				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply contract of the control supply voltage frequency	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply duration of inrush current peak at application of control supply	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 12.2 A 2.2 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				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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	 -15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 ms Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit 				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 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				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs number of digital inputs	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 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 1				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs number of digital inputs number of digital outputs	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 10 5 mA 2.2 A 12.2 A 2.2 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				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 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 1 3 2				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs number of digital inputs number of digital outputs o not parameterizable digital output version	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 ms Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs number of digital outputs • not parameterizable digital output version number of analog outputs	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 ms Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs number of digital inputs number of digital output version number of analog outputs switching capacity current of the relay outputs	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 ms Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0				
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 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 Inputs/ Outputs number of digital outputs • not parameterizable digital output version number of analog outputs	-15 % 10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 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 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)				

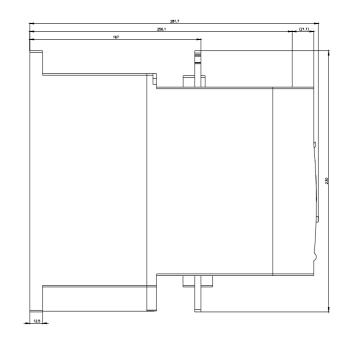
Installation/ mounting/ dimensions					
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface				
	+/- 22.5° tiltable to the front and back				
fastening method	screw fixing				
height	230 mm				
width	160 mm				
depth	282 mm				
required spacing with side-by-side mounting					
• forwards	10 mm				
backwards	0 mm				
• upwards	100 mm				
 downwards 	75 mm				
• at the side	5 mm				
weight without packaging	7.3 kg				
Connections/ Terminals					
type of electrical connection					
for main current circuit	busbar connection				
for control circuit	screw-type terminals				
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm				
wire length for thermistor connection	50				
• with conductor cross-section = 0.5 mm ² maximum	50 m				
• with conductor cross-section = 1.5 mm ² maximum	150 m				
• with conductor cross-section = 2.5 mm ² maximum	250 m				
type of connectable conductor cross-sections for main contacts for box terminal					
 using the front clamping point solid 	95 300 mm²				
 using the front clamping point finely stranded with core end processing 	70 240 mm ²				
• using the front clamping point finely stranded without core end processing	70 240 mm²				
 using the front clamping point stranded 	95 300 mm²				
 using the back clamping point solid 	120 240 mm²				
 r box terminal using the back clamping point 	250 500 kcmil				
 using both clamping points solid 	min. 2x 70 mm², max. 2x 240 mm²				
 using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²				
 using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²				
using both clamping points stranded	min. 2x 70 mm², max. 2x 240 mm²				
using the back clamping point finely stranded with core end processing	120 185 mm²				
using the back clamping point finely stranded without core end processing	120 185 mm ²				
using the back clamping point stranded type of connectable conductor cross-sections	120 240 mm²				
for AWG cables for main current circuit solid	2/0 500 kcmil				
 for AVVG cables for main current circuit solid for DIN cable lug for main contacts stranded 	50 240 mm ²				
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 	70 240 mm ²				
type of connectable conductor cross-sections					
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 processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)				
for 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	1 000 m				
tightening torque					
 for main contacts with screw-type terminals 	14 24 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 	124 210 lbf·in				
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in				

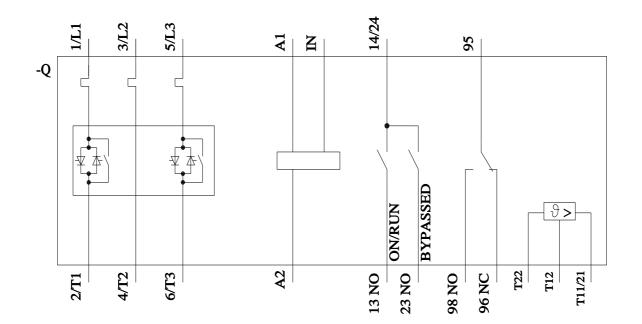
installation altitude at height above sea level maximum					
installation attrade at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual				
ambient temperature					
• during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above				
 during storage and transport 	-40 +80 °C				
environmental category					
• during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not g inside the devices), 1M4				
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
nvironmental footprint					
Siemens Eco Profile (SEP)	Siemens EcoTech				
EMC emitted interference	acc. to IEC 60947-4-2; Class A				
ommunication/ Protocol					
communication module is supported					
PROFINET standard	Yes				
• EtherNet/IP	Yes				
Modbus RTU Modbus TCP	Yes				
	Yes				
PROFIBUS	Yes				
L/CSA ratings					
manufacturer's article number					
of the fuse					
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class L, max. 1600 A; lq = 30 kA				
 — usable for High Faults up to 575/600 V according to UL 	Type: Class L, max. 1200 A; lq = 100 kA				
operating power [hp] for 3-phase motors					
 at 200/208 V at 50 °C rated value 	150 hp				
 at 220/230 V at 50 °C rated value 	150 hp				
 at 460/480 V at 50 °C rated value 	350 hp				
Electrical Safety					
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				
TEX					
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1				
PFHD with high demand rate according to IEC 61508 relating to ATEX	9E-6 1/h				
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09				
hardware fault tolerance according to IEC 61508 relating to ATEX	0				
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a				
certificate of suitability					
• ATEX	Yes				
-	Yes Yes				
• ATEX					
• ATEX • IECEx	Yes				

Subject to change without notice © Copyright Siemens

EHC	<u>KC</u>	IECEx	K ATEX	<u>Miscellaneous</u>	Type Test Certific- ates/Test Report		
Marine / Shipping			other	Environment			
ABS	Lloyds Register us	PRS	<u>Confirmation</u>	EPD	Siemens EcoTech		
Environment							
Environmental Con- firmations							
Further information	kaging						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5076-6TB14							
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5076-6TB14							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6TB14							
Image database (produ	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5076-6TB14⟨=en						
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6TB14/char							
Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5076-6TB14&objecttype=14&gridview=view1							
Simulation Tool for Sof	t Starters (STS)				-		







4/19/2024 🖸