SIEMENS

Data sheet

3RW5076-6AB15



SIRIUS soft starter 200-600 V 470 A, 110-250 V AC Screw terminals Analog output

Figure similar

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, lq = 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 50 %		
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 %		
accuracy class acc. to IEC 61557-12	5 %		
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	2		

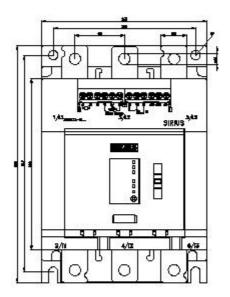
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2			
buffering time in the event of power failure				
for main current circuit	100 ms			
for control circuit	100 ms 100 ms			
insulation voltage rated value	600 V			
degree of pollution				
impulse voltage rated value	3, acc. to IEC 60947-4-2			
blocking voltage of the thyristor maximum	6 kV			
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	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	23.09.2019 00:00:00			
product function	23.09.2019 00.00.00			
•	Yes			
• ramp-up (soft starting)				
ramp-down (soft stop) Soft Torque	Yes			
Soft Torque	Yes			
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			
• 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	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)			
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	200 600 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			
• at 500 V at 40 °C rated value	315 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			

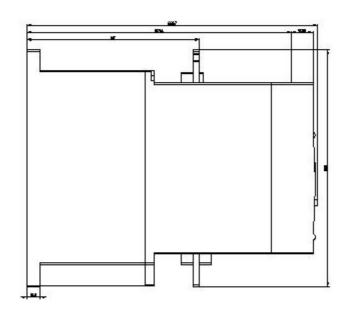
- et reter : ceding quiteb en quiteb recition 2	
 at rotary coding switch on switch position 3 	236 A
 at rotary coding switch on switch position 4 	254 A
 at rotary coding switch on switch position 5 	272 A
 at rotary coding switch on switch position 6 	290 A
 at rotary coding switch on switch position 7 	308 A
	326 A
 at rotary coding switch on switch position 8 	
at rotary coding switch on switch position 9	344 A
 at rotary coding switch on switch position 10 	362 A
 at rotary coding switch on switch position 11 	380 A
 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 %	
	E 244 M
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
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 positive tolerance of the control supply	10 % -15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply	
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 %
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	-15 % 10 %
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 % 50 60 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	-15 % 10 % 50 60 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 relative negative tolerance of the control supply relative negative tolerance of the control supply relative positive tolerance of the control supply	-15 % 10 % 50 60 Hz -10 %
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	-15 % 10 % 50 60 Hz -10 % 10 %
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	-15 % 10 % 50 60 Hz -10 % 10 % 30 mA
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 locked-rotor current at close of bypass contact	-15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA
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 locked-rotor current at close of bypass contact maximum inrush current peak at application of control supply voltage	-15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A
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 locked-rotor current at close of bypass contact maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control	-15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A
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 locked-rotor current at close of bypass contact maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	-15 % 10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 ms
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 locked-rotor current at close of bypass contact 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	-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
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 locked-rotor current at close of bypass contact 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 % 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
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 locked-rotor current at close of bypass contact 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 % 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 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 locked-rotor current at close of bypass contact 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 inputs for thermistor connection	-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 scope of supply
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 locked-rotor current at close of bypass contact 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 inputs number of digital outputs	-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 0 3
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 locked-rotor current at close of bypass contact 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 inputs for thermistor connection	-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 scope of supply

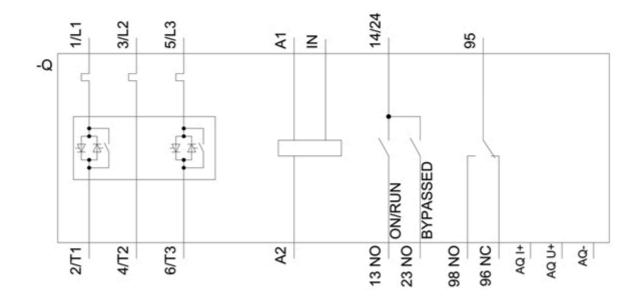
number of engles outputs	-
number of analog outputs	1
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
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
	45 mm
width of connection bar maximum	45 11111
 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid 	95 300 mm²
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point stranded 	95 300 mm²
 at AWG cables for main contacts for box terminal using the front clamping point 	3/0 600 kcmil
• for main contacts for box terminal using the back clamping point solid	120 240 mm ²
 at AWG cables for main contacts for box terminal using the back clamping point 	250 500 kcmil
for main contacts for box terminal using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 for main contacts for box terminal using both clamping points stranded 	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	120 185 mm²
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	120 185 mm²
 for main contacts for box terminal using the back clamping point stranded 	120 240 mm²
type of connectable conductor cross-sections	
at AWG cables for main current circuit solid	2/0 500 kcmil
 for DIN cable lug for main contacts stranded 	50 240 mm²
 for DIN cable lug for main contacts finely stranded 	70 240 mm²

• for control circuit solid 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) • for control circuit finely stranded with core end processing 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) • at AWG cables for control circuit solid 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) • at AWG cables for control circuit solid 1x (0.5 12.5 mm ²), 2x (0.5 1.5 mm ²) • at AWG cables for control circuit solid 1x (0.5 12.5 mm ²), 2x (0.5 1.5 mm ²) • at MWG cables for control circuit solid 1x (0.5 12.5 mm ²), 2x (0.5 1.5 mm ²) • between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 1000 m • for main contacts with screw-type terminals 14 24 N·m • for main contacts with screw-type terminals 124 210 lbf-in • for axiliary and control contacts with screw-type 7 10.3 lbf-in installation attitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature -40 +80 °C • during operation -25 +60 °C; Please observe derating at temperatures of 40 above • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get inside the devices), 3M6 • during transport acc.			
processing 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 1000 m tightening torque 1 1.24 N·m • for main contacts with screw-type terminals 14 24 N·m • for main contacts with screw-type terminals 0.8 1.2 N·m tightening torque [lbf·in] 124 210 lbf·in • for main contacts with screw-type terminals 1.24 210 lbf·in * for maxiliary and control contacts with screw-type terminals 1.24 210 lbf·in * for auxiliary and control contacts with screw-type terminals 1.24 210 lbf·in * for auxiliary and control contacts with screw-type 7 10.3 lbf·in installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 above • during operation -25 +60 °C; Please observe derating at temperatures of 40 above • during storage and transport -40 +80 °C environmental category 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721			
• 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 1000 m tightening torque • for main contacts with screw-type terminals 14 24 N·m • for main contacts with screw-type terminals 14 24 N·m • for main contacts with screw-type terminals 124 210 lbf·in • for auxiliary and control contacts with screw-type terminals 124 210 lbf·in • for main contacts with screw-type terminals 124 210 lbf·in • for auxiliary and control contacts with screw-type terminals 124 210 lbf·in • for auxiliary and control contacts with screw-type 7 10.3 lbf·in eterminals 5 000 m; Derating as of 1000 m, see manual ambient temperature • during operation • during storage and transport -40 +80 °C environmental category 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference			
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 main contacts with screw-type terminals 14 24 N·m • for main contacts with screw-type terminals 124 210 lbf-in • for main contacts with screw-type terminals 124 210 lbf-in • for main contacts with screw-type terminals 124 210 lbf-in • for main contacts with screw-type terminals 124 210 lbf-in • for main contacts with screw-type terminals 124 210 lbf-in • for maxiliary and control contacts with screw-type 7 10.3 lbf-in installation altitude 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 above • during operation acc. to IEC 60721 24 ±80 °C environmental category • during transport acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (not mist), 3S2 (sand must not get inside the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) eduring transport acc. to IEC 60721 2K2, 2C1, 2S1,			
• between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 1 000 m tightening torque 1 000 m • for main contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type 0.8 1.2 N·m tightening torque [lbf·in] 0.8 1.2 N·m • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for auxiliary and control contacts with screw-type 5 000 m; Derating as of 1000 m, see manual ambient temperature - during storage and transport -40	1x (20 12), 2x (20 14)		
• at the digital inputs at AC maximum 1 000 m tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type 0.8 1.2 N·m tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type 7 10.3 lbf·in terminals 124 210 lbf·in • for auxiliary and control contacts with screw-type 7 10.3 lbf·in terminals 124 210 lbf·in Ambient conditions 5 000 m; Derating as of 1000 m, see manual installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 above • during storage and transport -40 +80 °C environmental category 3K6 (no ice formation, only occasional condensation), 3C3 (not mist), 3S2 (sand must not get into the devices), 3M6 • during torage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (so not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2; Class A Communication module is supported Yes <td></td>			
tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for main contacts with screw-type terminals for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts at the screw-type terminals for auxiliary and control contacts at the screw terminals for auxiliary and control contermination, only occasional condensation), 3			
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum during operation during storage and transport environmental category during storage acc. to IEC 60721 during storage acc. to IEC 60721 SK6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 Communication module is supported PROFINET standard Yes 			
 for auxiliary and control contacts with screw-type terminals ightening torque [lbf-in] for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum during operation during storage and transport during operation acc. to IEC 60721 during storage acc. to IEC 60721 th 60 (no) cocasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 th 60 (no) cocasional condensation), 1C2 (no salt mist), 1S2 (so the devices), 1M4 during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference ext. to IEC 60947-4-2: Class A Communication module is supported PROFINET standard Yes 			
terminals terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • 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 manual installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 above • during operation -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during torage acc. to IEC 60721 3K6 (noly occasional condensation), 1C2 (no salt mist), 1S2 (sont get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported PROFINET standard			
tightening torque [lbf-in] for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 124 210 lbf-in for auxiliary and control contacts with screw-type terminals for auxiliary and contacts with screw-type terminals for auxiliary and contacts and transport for auxiliary and			
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature during operation environmental category during storage and transport eduring storage acc. to IEC 60721 atta (only occasional condensation), 3C3 (not mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 eduring transport acc. to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 eduring transport acc. to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 eduring transport acc. to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 eduring transport acc. to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 eduring transport acc. to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 eduring transport acc. to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 eduring transport acc. to IEC 60721 tK2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) text of the devices) eduring transpo			
• 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 manual installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 above • during operation -25 +60 °C; Please observe derating at temperatures of 40 above • during storage and transport -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (so not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Module is supported Yes			
terminals Ambient conditions installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 above • during operation -25 +60 °C; Please observe derating at temperatures of 40 above • during storage and transport -40 +80 °C environmental category -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Protocol Yes			
installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see manual ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 above • during storage and transport -40 +80 °C environmental category -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported Yes			
ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 above • during storage and transport -40 +80 °C environmental category -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported Yes			
 during operation -25 +60 °C; Please observe derating at temperatures of 40 above during storage and transport -40 +80 °C environmental category during operation acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 K6 (only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 EMC emitted interference Communication Protocol PROFINET standard Yes 			
• during storage and transport -40 +80 °C • nvironmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported Yes			
• during storage and transport -40 +80 °C • nvironmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported Yes	°C or		
environmental category • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol Yes			
during operation acc. to IEC 60721 during storage 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 ZK2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication module is supported PROFINET standard Yes			
mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (snot get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication Module is supported • PROFINET standard Yes			
not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported • PROFINET standard	salt		
EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported • PROFINET standard Yes	and must		
EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported • PROFINET standard Yes			
communication module is supported • PROFINET standard Yes			
communication module is supported • PROFINET standard Yes			
PROFINET standard Yes			
• EuleineviP			
Modbus RTU Yes			
Modbus RTO Yes			
UL/CSA ratings	_		
manufacturer's article number			
• of the fuse			
— usable for Standard Faults up to 575/600 V Type: Class L, max. 1600 A; Iq = 30 kA according to UL			
— usable for High Faults up to 575/600 V according to UL Type: Class L, max. 1200 A; Iq = 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			
• at 575/600 V at 50 °C rated value 450 hp			
Safety related data			
protection class IP on the front acc. to IEC 60529 IP00; IP20 with cover			
touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with cover			
ATEX			
certificate of suitability			
• ATEX Yes			
IECEX Yes			
ATEX			
PFDavg with low demand rate acc. to IEC 61508 0.09 relating to ATEX			
PFHD with high demand rate acc. to EN 62061 relating 0.000009 1/h 0.000009 1/h			

Safety Integrity Leve to ATEX	el (SIL) acc. to IEC 61	508 relating SIL	1		
T1 value for proof te IEC 61508 relating te	est interval or service o ATEX	life acc. to 3 y			
Certificates/ approval	S				
General Product Ap	oproval			For use in hazardou	us locations
	CCC		EHC	IECE×	Ex ATEX
Declaration of Cont	ormity	Test Certificates	other		
CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test Certific-</u> ates/Test Report	Confirmation		
Further information					
	wnloadcenter (Catalo	gs, Brochures,)			
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5076-6AB15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5076-6AB15					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB15					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5076-6AB15⟨=en					
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB15/char					
Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5076-6AB15&objecttype=14&gridview=view1					
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917					







last modified:

6/24/2021 🖸