SIEMENS

Data sheet 3RW5076-2AB04

	SIRIUS soft starter 200-480 V 470 A, 24 V AC/DC Spring-loaded terminals Analog output
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	JIW JU
of standard HMI module usable	3RW5980-0HS01
of high feature HMI module usable	3RW5980-0HF00
of communication module PROFINET standard usable	3RW5980-0CS00
of communication module PROFIBUS usable	3RW5980-0CP00
of communication module Modbus TCP usable	3RW5980-0CT00
of communication module Modbus RTU usable	3RW5980-0CR00
of communication module Ethernet/IP	3RW5980-0CE00
of circuit breaker usable at 400 V	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
of circuit breaker usable at 500 V	3VA2580-6HN32-0AA0: Type of assignment 1, Iq = 65 kA
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 	3NE1 436-2; Type of coordination 2, Iq = 65 kA
usable up to 690 V	
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 340-8; Type of coordination 2, Iq = 65 kA
 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
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
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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
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
utilization category according to IEC 60947-4-2	AC-53a

reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
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; 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	200 480 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
 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

37 W
5 344 W
4 438 W
3 876 W
Electronic, tripping in the event of thermal overload of the motor
AC/DC
24 V
24 V
-20 %
20 %
-20 %
20 %
50 60 Hz
-10 %
10 %
24 V
-20 %
20 %
160 mA
490 mA
7.6 A
3.3 A
12.1 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
3 2
2
2 2 normally-open contacts (NO) / 1 changeover contact (CO)
2 2 normally-open contacts (NO) / 1 changeover contact (CO)
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 230 mm
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 230 mm 160 mm
2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 230 mm 160 mm
2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 230 mm 160 mm 282 mm
2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 230 mm 160 mm 282 mm
2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 230 mm 160 mm 282 mm 10 mm 0 mm
2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 230 mm 160 mm 282 mm 10 mm 0 mm 10mm

installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • 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	Connections/ Terminals	
For man contacts for box terminal using the front clamping point for fively stranded with core end processing to for man contacts for box terminal using the front clamping point firely stranded with core or diprocessing of the fivel fively stranded with core end processing of the man contacts for box terminal using the front clamping point firely stranded with core or diprocessing of the fively stranded with core end processing of the fivel firely stranded with core end processing on for main contacts for box terminal using the foot of fively stranded with core end processing to for main contacts for box terminal using the foot of fively stranded with core end processing on for main contacts for box terminal using both clamping points fively stranded with core end processing of for main contacts for box terminal using both clamping points fively stranded with core end processing of for main contacts for box terminal using both clamping points fively stranded with core end processing of for main contacts for box terminal using both clamping points fively stranded with core end processing of for main contacts for box terminal using both clamping points fively stranded with core end processing of for main contacts for box terminal using both clamping points fively stranded with core end processing of for main contacts for box terminal using both clamping points fively stranded with core end processing of for main contacts for box terminal using both clamping points fively stranded with core end processing of or main contacts for box terminal using the box clamping point stranded with core end processing of formain contacts for box terminal using the box clamping point stranded with core end processing of formain contacts for the terminal using the box clamping point stranded with core end processing of formain contacts for the terminal using the box clamping point stranded with core end processing of formain contacts with screw-type terminals of for corror circuit finely stranded with core end processing of for	type of electrical connection	
width of connectable har maximum yigh of connectable conductor cross-sections of man contacts for box terminal using the front damning point soil of man contacts for box terminal using the front damning point soil of man contacts for box terminal using the front damning point soil of man contacts for box terminal using the front damning point firely stranded with core end processing of man contacts for box terminal using the fort damning point since stranded of or AWG cables for man contacts for box terminal using the back clamping point since it is man contacts for box terminal using the back clamping point since it is man contacts for box terminal using the back clamping point since it is man contacts for box terminal using both clamping points finely stranded with core end processing of or man contacts for box terminal using the back clamping point since it is man contacts for box terminal using the back clamping point for the stranded with core end processing of or man contacts for box terminal using the back clamping point finely stranded with core end processing of or man contacts for box terminal using the back clamping point finely stranded with core end processing of or man contacts for box terminal using the back clamping point finely stranded with core end processing of or man contacts for box terminal using the back clamping point finely stranded with core end processing of or man contacts for box terminal using the back clamping point finely stranded with core end processing of or man contacts for box terminal using the back clamping point finely stranded with core end processing of or man contacts for box terminal using the back of or DNC cable log for man contacts finely stranded with core end processing of or AWG cables for man contact finely stranded with core end processing of or AWG cables for control circuit finely stranded with core end processing of or AWG cables for control circuit finely stranded with core end processing of or awdition and contacts with screw-type ter	for main current circuit	busbar connection
type of connectable conductor cross-sections • for main contacts for hox terminal using the front clamping points solid • for main contacts for hox terminal using the front clamping point stranded without core end processing • for main contacts for hox terminal using the front clamping point stranded without core end processing • for main contacts for hox terminal using the back clamping point solid • for main contacts for hox terminal using beth clamping point solid • for main contacts for hox terminal using beth clamping point solid • for main contacts for hox terminal using beth clamping points solid • for main contacts for hox terminal using beth clamping points finely stranded with core end processing • for main contacts for hox terminal using beth clamping points finely stranded without core end processing • for main contacts for hox terminal using the back clamping point finely stranded without core end processing • for main contacts for hox terminal using the back clamping point finely stranded without core end processing • for main contacts for hox terminal using the back clamping point finely stranded without core end processing • for main contacts for hox terminal using the back clamping point finely stranded without core end processing • for main contacts for hox terminal using the back clamping point finely stranded without core end processing • for main contacts for hox terminal using the back clamping point finely stranded without core end processing • for main contacts for hox terminal using the back clamping point stranded • for DIN cable lug for main contacts front yet and the processing • for AWC cables for control circuit solid • 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 main contacts with screw-type terminal	for control circuit	spring-loaded terminals
• for main contacts for box terminal using the front clamping point finely standed with core end processing of main contacts for box terminal using the back clamping point stranded of main contacts for box terminal using the back clamping point stranded of main contacts for box terminal using the back clamping point stranded of main contacts for box terminal using box clamping point stranded of main contacts for box terminal using box clamping point stranded with core end processing of main contacts for box terminal using box clamping points firely stranded with core end processing of main contacts for box terminal using box clamping points firely stranded with core end processing of main contacts for box terminal using box clamping points firely stranded with core end processing of main contacts for box terminal using box clamping points firely stranded with core end processing of main contacts for box terminal using the back clamping point firely stranded without core end processing of main contacts for box terminal using the back clamping point firely stranded without core end processing of main contacts for box terminal using the back clamping point firely stranded without core end processing of main contacts for box terminal using the back clamping point firely stranded without core end processing of main contacts for box terminal using the back clamping point firely stranded with core end processing of main contacts with screw-type terminals of control circuit finely stranded with core end processing of control circuit finely stranded with core end processing of the control circuit finely stranded with core end processing of the control circuit finely stranded with core end processing of the control circuit finely stranded with core end processing of the control circuit finely stranded with core end processing of the core end processing of the control circuit finely stranded with core end processing of the control circuit finely stranded with core end processing of the control circuit finely stranded	width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm
clamping point solid for main contacts for box terminal using the front clamping point finely stranded with core end processing for main contacts for box terminal using the back clamping point solid for main contacts for box terminal using both clamping point solid for main contacts for box terminal using both clamping point solid for main contacts for box terminal using both clamping point solid for main contacts for box terminal using both clamping points freely stranded without core end processing for main contacts for box terminal using the back clamping point stranded for main contacts for box terminal using the back clamping points freely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point stranded without core end processing for main contacts for box terminal using the back clamping point stranded with core end processing for main contacts for box terminal using the back clamping point stranded with core end processing for main contacts for box terminal using the back clamping point stranded with core end processing for AWG cables for control circuit solid for DNA wG cables for control circuit finely stranded with core end processing for AWG cables for control circuit finely stranded with core end processing for AWG cables for control circuit finely stranded with core end processing for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxilia	type of connectable conductor cross-sections	
clamping point finely stranded with core end processing for main contacts for box terminal using the front clamping point stranded for main contacts for box terminal using the for main contacts for box terminal using the back clamping point solid for main contacts for box terminal using the for main contacts for box terminal using both clamping point solid for main contacts for box terminal using both for main contacts for box terminal using both clamping points solid for main contacts for box terminal using both for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using the beach clamping point finely stranded without core end processing for main contacts for box terminal using the beach clamping point finely stranded without core end processing for main contacts for box terminal using the beach clamping point stranded for poll N cable lug for main contacts frends tranded for poll N cable lug for main contacts frends tranded for poll N cables for main cornard circuit solid for DIN cable lug for main contacts frends tranded for control circuit finely stranded with core end processing for ANVG cables for control circuit solid for poll N cables for control circuit solid for one with the stranded with core end processing for ANVG cables for control circuit solid for poll N cables for control circuit solid		95 300 mm²
clamping point finely stranded without core end processing or for main contacts for box terminal using the back clamping point stranded or for which contacts for box terminal using the back clamping point solid or for which contacts for box terminal using behaviors and the back clamping point solid or for which contacts for box terminal using both damping point solid or for which contacts for box terminal using both damping point solid or for which contacts for box terminal using both damping point solid or for which contacts for box terminal using both damping point shelp stranded with core end processing or for main contacts for box terminal using both camping point shelp stranded without core end processing or for main contacts for box terminal using both camping point stranded or for which contacts for box terminal using the back clamping point finely stranded with core end processing or for main contacts for box terminal using the back clamping point stranded or for which contacts for box terminal using the back clamping point stranded or for which contacts for box terminal using the back clamping point stranded or for which contacts for box terminal using the back clamping point stranded or for M cables for main contacts stranded or for M cables for main contacts stranded or for M cables for main contacts finely stranded without core end processing or for which contacts for box terminal using the back clamping point stranded or for M cables for main contacts finely stranded with core end processing or for which cables for control circuit solid or for DN cable lug for main contacts finely stranded with core end processing or for which cables for control circuit solid or for DN cables for control circuit solid or for thing stranded with core end processing or for which cables for control circuit solid or for M cables for control circuit solid		70 240 mm²
clamping point stranded • for main contacts for box terminal using the back clamping point solid • for a MVC cables for main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for AWG cables for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts friendy stranded with core end processing • for AWG cables for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with core end processing • 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 main contacts with screw-type termin		70 240 mm²
clamping point solid for APAC cables for main contacts for box terminal using the back clamping point for main contacts for box terminal using both clamping points solid for main contacts for box terminal using both clamping points finely stranded with core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping points stranded without core end processing for main contacts for box terminal using both clamping points stranded with core end processing for main contacts for box terminal using the back clamping point finely stranded with core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point stranded for DIN cable lug for main contacts stranded for DIN cable lug for main contacts stranded for DIN cable lug for main contacts stranded for AVC cables for control circuit solid		95 300 mm²
the back clamping point for main contacts for box terminal using both clamping points solid for main contacts for box terminal using both clamping points finely stranded with core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using the back clamping points stranded for main contacts for box terminal using the back clamping point finely stranded with core end processing for main contacts for box terminal using the back clamping point finely stranded with core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for for Moc abite log for main contacts stranded for DIN cable lug for main contacts stranded for DIN cable lug for main contacts stranded for DIN cable lug for main contacts stranded for Control circuit finely stranded with core end processing for AWC cables for control circuit solid for AWC cables for control circuit solid for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables		120 240 mm²
points solid for man contacts for box terminal using both clamping points finely stranded with core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping points stranded for main contacts for box terminal using the back clamping point finely stranded with core end processing for main contacts for box terminal using the back clamping point finely stranded with core end processing for main contacts for box terminal using the back clamping point stranded for main contacts for box terminal using the back clamping point stranded for PIN cable lug for main contacts strande for DIN cable lug for main contacts finely stranded for OIN cable lug for main contacts finely stranded for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for a MVG cables for control circuit finely stranded with core end processing for for PIN cable lug for main contacts strande for control circuit finely stranded with core end processing for a main contact with screw-type terminals at the digital inputs at AC maximum		250 500 kcmil
points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for PIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for Control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with • for control circuit finely stranded with • for end geals for control circuit finely stranded with • at the digital inputs at AC maximum • at maximum and contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type • for main contacts w	points solid	
points finely stranded without core and processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for ChiN cables for control circuit solid • for control circuit solid • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit finely stranded with core end processing • for for AWG cables for control circuit solid • for	points finely stranded with core end processing	
points stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without ore end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for control circuit solid • for AWG cables for control circuit solid • for control circuit solid • for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for awilia cables for control circuit solid • for awilia cables for control circuit finely stranded with core end processing • for awilia puts at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type • during storage and transport • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport accordin	points finely stranded without core end processing	
elamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for DN cable us for main contacts stranded • for DN cable us for main contacts finely stranded • for DN cable us for main contacts finely stranded • for DN cable us for main contacts finely stranded • for DN cable us for main contacts finely stranded • for control circuit solid • for control circuit solid • for control circuit solid • for AWG cables for control circuit solid • for	points stranded	
clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for AWG cables for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for control circuit solid • for control circuit solid • for control circuit solid core and processing • for AWG cables for control circuit solid • for control circuit solid solid core end processing • for AWG cables for control circuit solid 2x (24 16) • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for faw in the digital inputs at AC maximum • between soft starter and motor maximum • at the digital inputs at AC maximum • of or main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals **Itightening torque** • for auxillary and control contacts with screw-type terminals **Itightening torque** • for auxillary and control contacts with screw-type terminals **Itightening torque (lbf-in) • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals **Itightening torque (lbf-in) • for faw in contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals **Itightening torque (lbf-in) • for faw in contacts with screw-type terminals • for auxillary and control contacts with screw-type • during operation • during operation • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 **Contact Time?** **AG (no ice formation, only occasional condensation	clamping point finely stranded with core end processing	
type of connectable conductor cross-sections • for AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for control circuit solid • for control circuit solid • for control circuit solid • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • during operation • during operation • during operation • during operation • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721	clamping point finely stranded without core end processing	
• for AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for maxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for maxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for or main contacts with screw-type terminals • for m	clamping point stranded	120 240 mm²
• for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded **Type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing **Wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **To main contacts with screw-type terminals • for auxiliary and control contacts with screw-ty		0.00
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• for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for or auxiliary and control contacts with screw-type terminals tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for auxiliary and control contacts with screw-type terminals tightening torque and control contacts with screw-type terminals **Tor auxiliary and control contacts with screw-type terminals **In 1.2 N·m* **In 1.3 lbf-in* **In 1.3 lbf-in* **In 1.3 lbf-in* **In 1.4 lbf-in 1.5 l		0 (0.05 4.5 3)
• for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and con		· ·
of raws cables for control circuit finely stranded with core end processing wire length obetween soft starter and motor maximum at the digital inputs at AC maximum 1000 m tightening torque of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals miblent conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage and transport cut in the device of the de		
wire length • between soft starter and motor maximum • 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 terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxi	• for AWG cables for control circuit finely stranded with	
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for auxiliary and control contacts with screw-type terminals mobient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage and transport during operation according to IEC 60721 during storage according to IEC 60721	tightening torque [lbf·in]	
terminals Installation altitude at height above sea level maximum Installation altitude at height above se	• for main contacts with screw-type terminals	124 210 lbf·in
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721		7 10.3 lbf·in
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 during operation during storage and transport 40 +60 °C; Please observe derating at temperatures of 40 °C or above during storage and transport during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 fonly occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 during transport according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 	installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
 during storage and transport during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 	ambient temperature	
 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 during transport according to IEC 60721 during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
 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 during transport according to IEC 60721 during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 	during storage and transport	-40 +80 °C
 (sand must not get into the devices), 3M6 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 	environmental category	
inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	 during operation according to IEC 60721 	
	during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 $$
EMC emitted interference acc. to IEC 60947-4-2: Class A	during transport according 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 	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/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; Iq = 30 kA
— 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
Safety related data	
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
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
• UKEX	Yes
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09
PFHD with high demand rate according to EN 62061 relating to ATEX	9E-6 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
Certificates/ approvals	

Certificates/ approvals

General Product Approval

For use in hazardous locations





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



Explosion Protection Certificate





Type Test Certificates/Test Report



Marine / Shipping

other





Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an

EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW5076-2AB04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5076-2AB04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-2AB04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5076-2AB04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-2AB04/cha

Characteristic: Installation altitude

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5076-2AB04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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

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