## **SIEMENS**

product brand name

Data sheet 3RW5247-6AC04

SIRIUS



SIRIUS soft starter 200-480 V 470 A, 24 V AC/DC Screw terminals Analog output

product brand name	SIRIUS	
product category	Hybrid switching devices	
product designation	Soft starter	
product type designation	3RW52	
manufacturer's article number		
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS00	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00	
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00	
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00	
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00	
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00	
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00	
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA	
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA	
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1436-2; Type of coordination 2, Iq = 65 kA	
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3340-8; Type of coordination 2, Iq = 65 kA	
General technical data		
starting voltage [%]	30 100 %	
stopping voltage [%]	50 50 %	
start-up ramp time of soft starter	0 20 s	
current limiting value [%] adjustable	130 700 %	
certificate of suitability		
• CE marking	Yes	
<ul> <li>UL approval</li> </ul>	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
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	400
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 safe isolation	
between main and auxiliary circuit	600 V
utilization category acc. to IEC 60947-4-2	AC 53a
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
product function	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
Soft Torque	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No
<ul> <li>inside-delta circuit</li> </ul>	Yes
<ul><li>auto-RESET</li></ul>	Yes
<ul><li>manual RESET</li></ul>	Yes
<ul> <li>remote reset</li> </ul>	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
<ul><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
• firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	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
operational current at inside-delta circuit	
• at 40 °C rated value	814 A
• at 50 °C rated value	721 A
at 60 °C rated value	658 A
operating voltage	
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at	10 %

inside-delta circuit	
operating power for 3-phase motors	
at 230 V at 40 °C rated value	132 kW
• at 230 V at inside-delta circuit at 40 °C rated value	250 kW
• at 400 V at 40 °C rated value	250 kW
• at 400 V at inside-delta circuit at 40 °C rated value	400 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	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	200 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	218 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	236 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	254 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	272 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	290 A
<ul><li>at rotary coding switch on switch position 7</li></ul>	308 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	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     at rotary coding switch on switch position 15	434 A
at rotary coding switch on switch position 15     at rotary coding switch on switch position 16	452 A 470 A
<ul> <li>at rotary coding switch on switch position 16</li> <li>minimum</li> </ul>	200 A
adjustable motor current	200 A
for inside-delta circuit at rotary coding switch on switch position 1	346 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	378 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	409 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	440 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	471 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	502 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	533 A
for inside-delta circuit at rotary coding switch on switch position 8     for inside delta circuit at rotary coding switch on	565 A 596 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	627 A
switch position 10     for inside-delta circuit at rotary coding switch on	658 A
switch position 11  • for inside-delta circuit at rotary coding switch on	689 A
switch position 12  • for inside-delta circuit at rotary coding switch on	721 A
switch position 13  • for inside-delta circuit at rotary coding switch on	752 A
switch position 14  • for inside-delta circuit at rotary coding switch on	783 A
switch position 15  • for inside-delta circuit at rotary coding switch on	814 A
switch position 16  • at inside-delta circuit minimum	346 A

minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
<ul> <li>at 40 °C after startup</li> </ul>	153 W
<ul> <li>at 50 °C after startup</li> </ul>	137 W
at 60 °C after startup	126 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	7 903 W
at 50 °C during startup	6 604 W
at 60 °C during startup	5 794 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
<ul> <li>control supply voltage at AC at 50 Hz rated value</li> </ul>	24 V
control supply voltage at AC at 60 Hz rated value	24 V
relative negative tolerance of the control supply	-20 %
relative positive tolerance of the control supply	20 %
voltage at AC at 50 Hz	20.0/
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
<ul> <li>control supply voltage at DC rated value</li> </ul>	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	470 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of inputs for thermistor connection	0
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastoning mothod	
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	

• Inovarids • Individual services and in the side of t			
one would be added to the side of the		10 mm	
od the side     of control crost of terminals     of control crost of the side     of control crost of the side of the si	<ul><li>backwards</li></ul>		
* at the side	• upwards	100 mm	
weight without packaging  Connections I forminals  Veryer of electrical connection  • for main current circuit  • for control circuit  vidth of connection bar maximum  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts stranded  • for control circuit solid  • for solid part stranded  • for solid part stranded  • for solid part stranded  • for solid part solid  • between soft starler and motor maximum  • at the digital inputs at DC maximum  • tightening torque  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type  • terminals  • 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  • ambient temperature during operation  • ambient temperature during operation  • ambient temperature during operation  • during prograge acc. to IEC 60721  • during prograge acc. to IEC 60721  • during strange acc.  • IEC 60721  • during strange acc.  • IEC 60721  • during strange acc.  • IEC 60721  • Guring str	<ul><li>downwards</li></ul>		
Semination of the processing of the processing of the digital inputs at DC maximum   100 m   124 24 N/m   100 m   100 m   124 24 N/m   124 24	at the side	5 mm	
type of electrical connection	weight without packaging	9.9 kg	
• for main current circuit • for control circuit  width of connectable conductor cross-sections • 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 control circuit solid • for solidal inputs at DC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • 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 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 • 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 • for auxiliary	Connections/ Terminals		
Sorew-type terminals	type of electrical connection		
width of connection bar maximum  Type of connectable conductor cross-sections  of no INN cable up for main contacts stranded  of no INN cable up for main contacts finely stranded  of no control circuit solid  of control circuit solid  of control circuit solid  of control circuit finely stranded with core end processing  at AWG cables for control circuit solid  wire length  observed at the digital inputs at DC maximum  at the digital inputs at DC maximum  of main contacts with screw-type terminals  of no auxiliary and control contacts with screw-type terminals  of no a	<ul> <li>for main current circuit</li> </ul>	busbar connection	
type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • at AWG cables for control circuit solid  **wire length  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • for main contacts with screw-type terminals  • for availing and control contacts with screw-type  terminals  **To availing a direct control contacts with screw-type  terminals  **Dinate control control contacts with screw-type  terminals  **Dinate control control contacts with screw-type  terminals  **Dinate control control contacts with screw-type  terminals  **To availing and control contacts with screw-type  terminals  **To maximize and terminals	<ul> <li>for control circuit</li> </ul>	screw-type terminals	
• for DIN cable lug for main contacts stranded  type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • at AWG cables for control circuit solid • 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 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 • ambient temperature during operation • ambient temperature during storage and transport • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage 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 • ACC and mm') • ACC and	width of connection bar maximum	45 mm	
type of connectable conductor cross-sections  of crontrol circuit solid  of the digital inputs at CD maximum  of the digital inputs at CD maximum  of the digital inputs at CD maximum  of ror 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  installation altitude at height above sea level maximum  of ambient temperature during operation  of ambient temperature during storage and transport  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  terminals  installation altitude at height above sea level maximum  of ambient temperature during storage and transport  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  terminals  installation altitude at height above sea level maximum  of ambient temperature during storage and transport  of main contacts  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control contacts with screw-type  of main contacts  of auxiliary and control con	type of connectable conductor cross-sections		
type of connectable conductor cross-sections  • for control circuit solid  • for solid solid solid solid  • for solid solid solid solid  • between soft starter and motor maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC 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 auxiliary and control contacts with screw-type  • for main contacts with screw-type  • for auxiliary and control contacts with screw-type  • for main contacts with screw-type  • for main contacts with screw-type  • for auxiliary and control contacts with screw-type  • for main contacts with screw-type  • for main contacts with screw-type  • for main contacts with screw-type  • for auxiliary and control contacts with screw-type  • for auxiliary and control contacts with screw-type  • for auxiliary and control contacts with screw-type  • for main contacts with screw-type  • for auxiliary and control contacts with screw-type  • antibion contacts with screw-type  • for auxiliary and control contacts with screw-type  • for auxiliary and control contacts with screw-type  • antibion antitude at height above sea level maximum  • for main contacts with screw-type  • for auxiliary and control contacts with screw-type  • for auxiliary and	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)	
• for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid  • to control circuit finely stranded with core end processing • at AWG cables for control circuit solid  • 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 • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw	<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	2x (70 240 mm²)	
• for control circuit finely stranded with core end processing • at AVVG cables for control circuit solid • at We length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • 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 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 • 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  • 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	type of connectable conductor cross-sections		
• for control circuit finely stranded with core end processing • at AVVG cables for control circuit solid • at We length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • 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 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 • 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  • 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	for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
e at AWG cables for control circuit solid  wire length  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type  terminals  Itightening torque [lbf-in]  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type  terminals  Installation attitude at height above sea level maximum  • ambient temperature during operation  • ambient temperature during storage and transport  • during operation acc. to IEC 60721  • during storage 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  EMC emitted Interference  communication Protocol  communication module is supported  • PROFIBUS  PROFIBUS  PROFIBUS  Pres  • Liber Neurly  • Auxiliary and control circuit solid  Type: Class J / L, max. 1600 A; Iq = 30 kA  circuit up to 575/600 V according to UL.  — usable for Standard Faults up to 575/600 V according to UL.  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL.  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL.  — usable for Standard Faults are inside-delta circuit up to 575/600 V according to UL.	<ul> <li>for control circuit finely stranded with core end</li> </ul>		
wire length  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  1 000 m  • at the digital inputs at DC maximum  • for auxiliary and control contacts with screw-type terminals  • antible of telept and control contacts with screw-type terminals  • for the fuse  • usable for High Faults up to 575/600 V according to UL  • usable for Standard Faults up to 575/600 V according to UL  • Type: Class J / L, max. 1600 A; lq = 30 kA  • Type: Class J / L, max. 1600 A; lq = 30 kA	· · · · · · · · · · · · · · · · · · ·		
between soft starter and motor maximum     at the digital inputs at AC maximum     at the digital inputs at DC maximum     at the digital inputs at DC maximum     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     ambient temperature during operation     ambient temperature during storage and transport     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721     et lief for auxiliary and transport     e PROFINET standard     PROFINET standard     PROFINET standard     PROFINET standard     PROFINED     wes able for High Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     Type: Class J / L, max. 1600 A; lq = 30 kA     Type: Class J / L, max. 1600 A; lq = 30 kA     Type: Class J / L, max. 1600 A; lq = 30 kA     Type: Class J / L, max. 1600 A; lq = 30 kA	at AWG cables for control circuit solid	1x (20 12), 2x (20 14)	
at the digital inputs at AC maximum  at the digital inputs at DC maximum  1000 m  100	wire length		
e at the digital inputs at DC maximum  tightening torque  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • 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  Ambient conditions  installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721  EMC emitted interference communication/Protocol  communication/Protocol  communication/Protocol  communication module is supported • PROFINET standard • PROFINET standard • Cemmunication module is supported • PROFINET standard • PROFINET standard • Cemmunication module is supported • PROFINET standard • Cemmunication module is supported • PROFINE	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m	
tightening torque  • for main contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  tightening torque [lbf-in]  • for main contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • for auxillary and control contacts with screw-type terminals  • auxillary and control contacts with screw-type terminals  • auxillary and control contacts available of \$000 m; Derating as of 1000 m, see catalog  • 25 +60 °C; Please observe derating at temperatures of 40 °C or above  • 40 +80 °C  • Auxillary and transport derating at temperatures of 40 °C or above  • 40 +80 °C  • Auxillary and transport derating at temperatures of 40 °C or above  • 40 +80 °C  • Auxillary and transport derating at temperatures of 40 °C or above  • 40 +80 °C  • Auxillary and transport derating at temperatures of 40 °C or above  • 40 +80 °C; Please observe derating at temperatures of 40 °C or above  • 40 +80 °C; Please observe derating at temperatures of 40 °C or above  • 40 +80 °C; Please observe derating at temperatures of 40 °C or above  • 40 +80 °C  • (auxillary and auxillary and auxillary and auxillary and aux	<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m	
• 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 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 • ambient temperature during operation • ambient temperature during storage and transport • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721  EMC emitted interference  communication Protocol  communication Protocol  communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS  manufacturer's article number • of the fuse  — usable for Istandard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA	<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m	
• for auxiliary and control 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 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     • 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     • 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     • 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-ty	tightening torque		
tightening torque [lbf-in]  • 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 • ambient temperature during operation • ambient temperature during storage and transport • during operation acc. to IEC 60721 • 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 • Alto (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 • Alto (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport acc. to IEC 60721 • Alto (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • Communication Protocol  Communication Protocol  communication module is supported • PROFINET standard • PROFINED • PROFIBUS  Tyes: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA	<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m	
tightening torque [libf-in]  • 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 • ambient temperature during operation • ambient temperature during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721  EMC emitted interference communication/Protocol communication module is supported • PROFINET standard • PROFINET standard • Modbus RTU • Modb	<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m	
• 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  • ambient temperature during operation • ambient temperature during storage and transport • ambient temperature during storage and transport • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721  EMC emitted interference  communication / Protocol  communication / Protocol  communication module is supported • PROFIBUS  PROFIBUS  UL/CSA ratings  manufacturer's article number • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	terminals		
for auxiliary and control contacts with screw-type terminals  Anbient conditions  installation altitude at height above sea level maximum			
Ambient conditions installation altitude at height above sea level maximum  • ambient temperature during operation  • ambient temperature during operation  • ambient temperature during storage and transport  • ambient temperature during storage and transport  • ambient temperature during storage and transport  • during operation acc. to IEC 60721  • during operation acc. to IEC 60721  • during storage acc. to IEC 60721  • during transport acc. to IEC 60721  • during transport acc. to IEC 60721  • during transport acc. to IEC 60721  • EMC emitted interference  communication/ Protocol  communication/ Protocol  communication/ Protocol  communication module is supported  • PROFIBUS  • PROFIBUS  ULICSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in	
installation altitude at height above sea level maximum  • ambient temperature during operation • ambient temperature during operation • ambient temperature during storage and transport • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • EMC emitted interference • acc. to IEC 60947-4-2: Class A  Communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA		7 10.3 lbf·in	
installation altitude at height above sea level maximum  • ambient temperature during operation • ambient temperature during storage and transport • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721  EMC emitted interference • communication/ Protocol  communication/ Protocol  communication module is supported • PROFINET standard • PROFINET standard • PROFIBUS  PYes • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA			
ambient temperature during operation above ambient temperature during storage and transport  environmental category  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  EMC emitted interference  communication module is supported  PROFINET standard  PROFINET standard  PROFIBUS  PROFIBUS  PROFIBUS  PROFIBUS  Tyes  JU/CSA ratings  manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA			
above -40 +80 °C  environmental category  e during operation acc. to IEC 60721  string storage acc. to IEC 60721  eduring storage acc. to IEC 60721  string transport acc. to IEC 60721  string transport acc. to IEC 60721  EMC emitted interference  communication module is supported  PROFINET standard  PROFINET standard  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  PROFIBUS  profibus  manufacturer's article number  of the fuse  - usable for Standard Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog	
environmental category  • 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  EMC emitted interference  • communication Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA	ambient temperature during operation	· · · · · · · · · · · · · · · · · · ·	
• during operation acc. to IEC 60721      • during storage acc. to IEC 60721      • during storage acc. to IEC 60721      • during transport acc. to IEC 60721      • EMC emitted interference      • Communication Protocol      • Communication module is supported      • PROFINET standard      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS   UL/CSA ratings  manufacturer's article number      • of the fuse      — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA	ambient temperature during storage and transport	-40 +80 °C	
mist), 3S2 (sand must not get into the devices), 3M6  • during storage acc. to IEC 60721  • during transport acc. to IEC 60721  • during transport acc. to IEC 60721  EMC emitted interference  communication Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults ut inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA	environmental category		
ont get inside the devices), 1M4  • during transport acc. to IEC 60721  EMC emitted interference  communication/ Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • PROFIBUS  • PROFIBUS  Tyes • PROFIBUS   Tyes  • PROFIBUS  Tyes  • PROFIBUS  Tyes  • Type: Class J / L, max. 1600 A; Iq = 30 kA according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA	<ul> <li>during operation acc. to IEC 60721</li> </ul>		
EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication/ Protocol  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  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA	<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must	
communication/ Protocol  communication module is supported  PROFINET standard Yes  EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS Yes PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse — usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA		not get inside the devices), 1M4	
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  PROFIBUS  Ves  UL/CSA ratings  manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA	during transport acc. to IEC 60721	not get inside the devices), 1M4	
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  PROFIBUS  Ves  Ves  PROFIBUS  Ves  Ves  Ves  Ves  Ves  Ves  Ves  Ve		not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
<ul> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Type: Class J / L, max. 1600 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> </ul>	EMC emitted interference	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
<ul> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Type: Class J / L, max. 1600 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> </ul>	EMC emitted interference Communication/ Protocol	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
Modbus TCP Modbus TCP PROFIBUS Yes  PROFIBUS  Ves  UL/CSA ratings  manufacturer's article number  of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA	EMC emitted interference  Communication/ Protocol  communication module is supported	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A	
● PROFIBUS  UL/CSA ratings  manufacturer's article number  ● of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes	
● PROFIBUS  UL/CSA ratings  manufacturer's article number  ● of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP	not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes	
manufacturer's article number  ● of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 30 kA	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes	
manufacturer's article number  ● of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes	
<ul> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li></ul></li></ul>	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> <li>Type: Class J / L, max. 1200 A; Iq = 30 kA</li> </ul>	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes	
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Type: Class J / L, max. 1200 A; Iq = 100 kA</li> <li>Type: Class J / L, max. 1600 A; Iq = 30 kA</li> </ul>	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes	
— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes	
'	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes	
	EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	

to 575/600 V according to UL				
operating power [hp] for 3-phase motors				
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	150 hp			
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	150 hp			
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	350 hp			
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	250 hp			
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	250 hp			
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	600 hp			
contact rating of auxiliary contacts according to UL	R300-B300			
Safety related data				
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover	IP00; IP20 with cover		
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover			
electromagnetic compatibility	in accordance with IEC 60947-4-2			
Certificates/ approvals				
General Product Approval		EMC		

AD)











**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



**Miscellaneous** 

Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

Confirmation

## **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5247-6AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-6AC04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5247-6AC04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

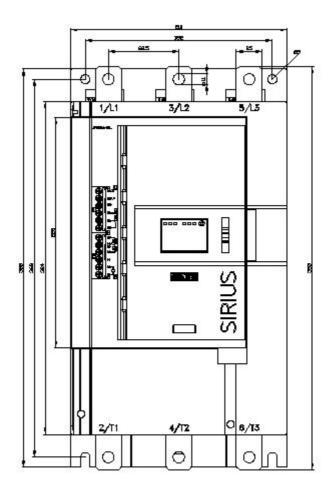
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC04/char

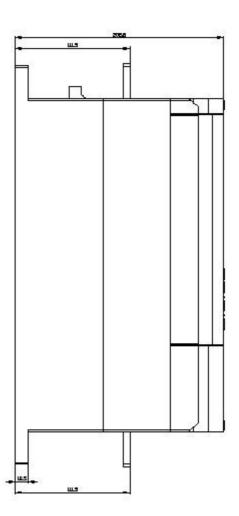
Characteristic: Installation altitude

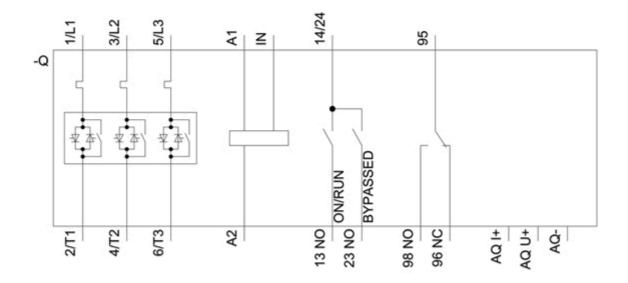
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5247-6AC04\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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