SIEMENS

Data sheet 3RW5247-6AC15



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

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	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 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1436-2; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	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

UL approvalCSA approval

• HMI-Standard

• HMI-High Feature

product component is supported

product feature integrated bypass contact system

Yes Yes

Yes

Yes

Yes

Yes

number of controlled phases	
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
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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
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
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function	Yes
operating measured value display	Yes; Only in conjunction with special accessories
• error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
The following y	module
firmware update	Yes
removable terminal for control circuit	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
at 40 °C rated value	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	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	200 000 V
relative negative tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	_ 10 % -15 %
inside-delta circuit	10 /0

relative nositive tolerance of the operating voltage of	10 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 /0
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
 at 500 V at 40 °C rated value 	315 kW
at 500 V at inside-delta circuit at 40 °C rated value	500 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
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	346 A
 for inside-delta circuit at rotary coding switch on switch position 2 	378 A
 for inside-delta circuit at rotary coding switch on switch position 3 	409 A
 for inside-delta circuit at rotary coding switch on switch position 4 	440 A
 for inside-delta circuit at rotary coding switch on switch position 5 	471 A
 for inside-delta circuit at rotary coding switch on switch position 6 	502 A
 for inside-delta circuit at rotary coding switch on switch position 7 	533 A
 for inside-delta circuit at rotary coding switch on switch position 8 	565 A
for inside-delta circuit at rotary coding switch on switch position 9	596 A
for inside-delta circuit at rotary coding switch on switch position 10 for inside delta circuit at rotary coding switch on switch on the circuit at rotary coding switch at rotary coding	627 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	658 A 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 switch position 16 • at Inside-delta circuit minimum minimum load [3] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C after st	
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number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value 3 A	
switching capacity current of the relay outputs • at AC-15 at 250 V rated value 3 A	
• at AC-15 at 250 V rated value 3 A	
at DC-13 at 24 V rated value 1 A	
Installation/ mounting/ dimensions	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mount	ınting
fastening method screw fixing	
height 393 mm	
width 210 mm	
depth 203 mm	
· · · · · · · · · · · · · · · · · · ·	
required spacing with side-by-side mounting	
• forwards 10 mm	

• Upwards • downwards • downwards • at the side • defined the side • of mm veright without packaging Connections* Terminals • for main current circuit • for main current circuit • for main current circuit • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for DN cable lug for main contacts finely stranded • for control circuit finely shaded with core and processing • for control circuit finely shaded with core and processing • for main contacts with screw-type terminals • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital protes of the finely stranded • for main contacts with screw-type terminals • for availities and motor maximum • at the digital protes of the finely stranded • for main contacts with screw-type terminals • for main grade and contacts with screw-type terminals • for main contacts with screw-type termin		
of the side of the si	backwards	0 mm
weight without packaging Commotional Terminals type of electrical connection • for control circuit • for control circuit • for control circuit • for pilx cable up for main contacts stranded • for pilx cable up for main contacts friendly stranded • for pilx cable up for main contacts friendly stranded • for control circuit solid • for main contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • for availlary and control contacts with screw-type terminals • during storage and transport • during sporation act. to IEC 60721 • during sporation act. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 6072	upwards	100 mm
Veryor of electrical connection For main current circuit Survey por of electrical connection For main current circuit Survey por of electrical connection For main current circuit Survey por of connectable conductor cross-sections For DIN cable lug for main contacts stranded For DIN cable lug for main contacts tranded For DIN cable lug for main contacts tranded For control circuit solid For main contacts with stranded with core end processing For main contacts with stranded with core end processing For main contacts with stranded with core end processing For main contacts with stranded with core end processing For main contacts with stranded with core end processing For main contacts with stranded with core end processing For main contacts with stranded with core end processing For main contacts with stranded For main contacts with str	downwards	75 mm
Some closes Terminals	at the side	5 mm
type of electrical connection	weight without packaging	9.9 kg
• for control circuit • for control 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 stranded • for control circuit sold • for control circuit sold • for control circuit sold • for control circuit finely stranded with core end processing • al AWG cables for control circuit sold • for control circuit finely stranded with core end processing • al AWG cables for control circuit sold • for soldial inputs al AC maximum • at the digital inputs al AC maximum • at the digital inputs al AC maximum • at the digital inputs al AC maximum • of ra soldiary and control contacts with screw-type terminals • for soldiary and control contacts with screw-type terminals • for main contacts with screw-ty	Connections/ Terminals	
• for control circuit width of connectable bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded of cro DIN cable lug for main contacts stranded of cro DIN cable lug for main contacts stranded of cro DIN cable lug for main contacts stranded of cro DIN cable lug for main contacts stranded of cro DIN cable lug for main contacts stranded of cro DIN cable lug for main contacts stranded of crounted circuit solid of croatrol circuit solid of croatrol circuit finely stranded with core end processing of at AWG cables for control circuit solid of croatrol croatrol circuit solid of croatrol croatrol circuit solid of cro	type of electrical connection	
width of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for table solid indept stranded with core end • of at AWG cables for control circuit solid • for main contacts with screw-type terminals • for suicilitary and control contacts with screw-type terminals • for formain contacts with screw-type terminals • for suicilitary and control contacts with screw-type terminals **Ambient conditions** installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during peration acc. to IEC 60721 • during storage and transport • during storage acc. to IEC 60721 •	 for main current circuit 	busbar connection
type of connectable conductor cross-sections	for control circuit	screw-type terminals
• for DIN cable lug for main contacts 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 • at AWG cables for control circuit solid • between soft starter and motor 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 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 auxiliary and control contacts with screw-type • for main contacts with screw-type • for main contacts with screw-type • during torque [Ibf-in] • for main contacts with screw-type • during sportage and transport • during storage and transport • during torque for the fuse • PROFINET standard • PROFINES ### 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 = 100 kA	width of connection bar maximum	45 mm
**o for DIN cable lug for main contacts finely stranded type of connectable unductor cross-sections **o for control circuit solid	type of connectable conductor cross-sections	
type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • 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 100 m tightening torque • 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 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 main c	 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)
• for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for awding that strater 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 terminals • for auxiliary and	 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm²)
• for control circuit finely stranded with core end processing • at AVIG cables for control circuit solid • AVIG cables for control circuit solid • 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 • for for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for an incontacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary	type of connectable conductor cross-sections	
processing	 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
between soft starter and motor maximum at the digital inputs at AC maximum 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 installation altitude at height above sea level maximum ambient conditions installation altitude at height above sea level maximum ambient temperature during operation 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	 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
• at the digital inputs at AC maximum tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum • during operation • during operation • during storage and transport • during storage and transport • 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 transpor	wire length	
tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for expensive	 between soft starter and motor maximum 	800 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 • 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 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 the fuse • during operation • during storage and transport • during operation and transport • during storage and transpo	at the digital inputs at AC maximum	100 m
itightening torque [lbf-in] if or main contacts with screw-type terminals if or auxiliary and control contacts with screw-type terminals installation altitude at height above sea level maximum ambient temperature during operation during storage and transport during storage and transport 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 eduring transport acc. to IEC 60721 EMC emitted interference communication/Protocol communication/Protocol communication module is supported PROFINET standard PROFIBUS UL/CSA ratings manufacturer's article number of the fuse usable for High Faults up to 575/600 V according to UL usable for Fligh Faults at inside-delta circuit up usable for Fligh Faults at inside-delta circuit up Type: Class J / L, max. 1200 A; lq = 100 KA Type: Class J / L, max. 1200 A; lq = 100 KA Type: Class J / L, max. 1200 A; lq = 100 KA Type: Class J / L, max. 1200 A; lq = 100 KA	tightening torque	
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 for auxiliary and control contacts with screw-type * for auxiliary and control contacts with screw-type installation altitude at height above sea level maximum * ambient temperature • during operation • during storage and transport • during storage and transport • 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 Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of the fuse — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA	 for main contacts with screw-type terminals 	14 24 N·m
• for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals Amblent conditions installation altitude at height above sea level maximum ambient temperature • during operation • 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 • Adving transport acc. to IEC 60721 EMC emitted interference Communication Protocol communication module is supported • PROFINET standard • EtherNet/IIP • Modbus RTU • Modbus TCP • PROFIBUS DU/CSA ratings manufacturer's article number • of the fuse — usable for High Faults up to 575/600 V according to UL — usable for High 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 High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High 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 Itigh 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 High Faults at inside-delta circuit up to 575/600 V according to UL - Usable for Hig	, , , , , , , , , , , , , , , , , , , ,	0.8 1.2 N·m
• for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • 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 module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFIBUS UL/CSA ratings manufacturer's article number • of the fuse — usable for High Faults up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up - Usable for High Faults at Inside-delta circuit up - Usable for High Faults at Inside-delta circuit up - Usable for High Faults at Inside-delta circuit up - Usabl	tightening torque [lbf·in]	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • 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 communication Protocol communication module is supported • PROFINET standard • PROFIBUS PROFIBUS manufacturer's article number • of the fuse — usable for High Faults up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up - Usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1200 A; Iq = 100 kA	 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 acc. to IEC 60721 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 wodule is supported PROFINET standard EtherNet/IP Modbus RTU Modbus RT		7 10.3 lbf·in
ambient temperature • during operation • during storage and transport • 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 • Auxing transport acc. to IEC 60721 • Auxing transport acc. to IEC 60721 • Auxing transport acc. to IEC 60721 • PROFINET standard • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS * PROFIBUS * PROFIBUS * 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 = 100 kA * Type: Class J / L, max. 1600 A; Iq = 100 kA * Type: Class J / L, max. 1600 A; Iq = 100 kA	Ambient conditions	
 during operation during storage and transport 40 +80 °C environmental category during operation acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 K6 (nol ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not 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 Yes Modbus RTU PROFIBUS 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 up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up Type: Class J / L, max. 1200 A; Iq = 30 kA Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 30 kA 	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
• during storage and transport • during peration 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 module is supported • PROFINET standard • 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 circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up	ambient temperature	
environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference communication module is supported • PROFINET standard • PROFINET standard • 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 at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up 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	during operation	
 during operation acc. 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 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 RTU • PROFIBUS WL/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 — usable for Standard Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up 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. 1200 A; Iq = 100 kA Type: Class J / L, max. 1200 A; Iq = 100 kA 	 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 at inside-delta circuit up must (sold into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes • LEC 60947-4-2: Class A Yes • EtherNet/IP • Modbus RTU • 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 Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1600 A; Iq = 30 kA	environmental category	
ot get inside the devices), 1M4 • during transport acc. to IEC 60721 EMC emitted interference acc. to IEC 60947-4-2: Class A 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 at inside-delta circuit up musable for High Faults at inside-delta circuit up rot get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K3, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K3, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall fall fall height	• during operation acc. to IEC 60721	
EMC emitted interference 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 — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA		not get inside the devices), 1M4
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 — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 30 kA		, , , , , , , , , , , , , , , , , , , ,
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS Ves • 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA		acc. to IEC 60947-4-2: Class A
 PROFINET standard EtherNet/IP Modbus RTU Modbus TCP Modbus TCP PROFIBUS 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 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 High Faults at inside-delta circuit up 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 	Communication/ Protocol	
 EtherNet/IP Modbus RTU Modbus TCP Modbus TCP PROFIBUS 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 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 High Faults at inside-delta circuit up 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 = 100 kA Type: Class J / L, max. 1200 A; Iq = 100 kA		
Modbus RTU Modbus TCP PROFIBUS Wes UL/CSA ratings manufacturer's article number of the fuse		
Modbus TCP 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 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 High Faults at inside-delta circuit up 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. 1600 A; Iq = 30 kA	communication module is supported	Yes
● PROFIBUS Wes ### PROFIBUS ### PROFIBUS ### PROFIBUS ### PROFIBUS ### PROFIBUS ### PROFIBUS Ves ### PROFIBUS ### PROFIBUS ### PROFIBUS ### Profice Ves ### Profice	communication module is supported • PROFINET standard	
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 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	communication module is supported PROFINET standard EtherNet/IP	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 — usable for High Faults at inside-delta circuit up — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1200 A; Iq = 30 kA Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA 	communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	Yes Yes
 • 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 High Faults at inside-delta circuit up 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. 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 = 100 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 = 100 kA	communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes
 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 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 High Faults at inside-delta circuit up 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 	communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes
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 High Faults at inside-delta circuit up 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 = 100 kA	communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes
according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA	communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes
circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1200 A; Iq = 100 kA	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	Yes Yes Yes Yes Yes
	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	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1600 A; Iq = 30 kA
	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	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA

operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	150 hp
 at 220/230 V at 50 °C rated value 	150 hp
 at 460/480 V at 50 °C rated value 	350 hp
 at 575/600 V at 50 °C rated value 	450 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	250 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	250 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	600 hp
• at 575/600 V at inside-delta circuit at 50 °C rated value	800 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
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

Declaration of Conformity













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

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=3RW5247-6AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-6AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-6AC15&lang=en

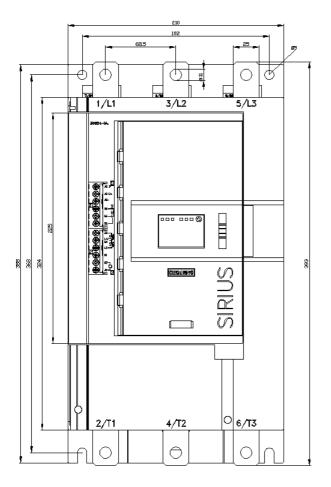
Characteristic: Tripping characteristics, I2t, Let-through current

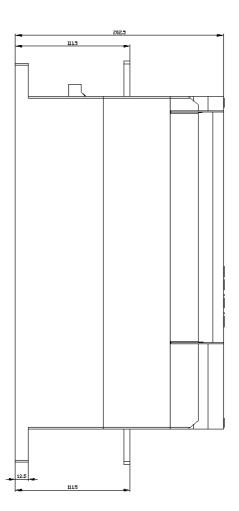
Characteristic: Installation altitude

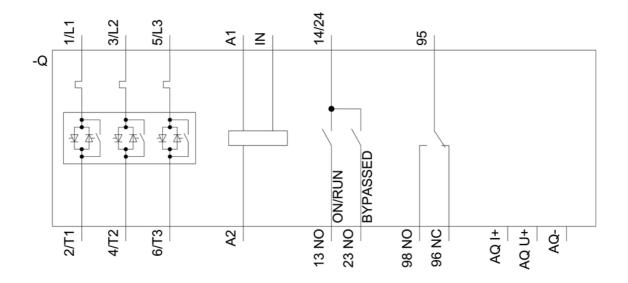
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5247-6AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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