SIEMENS

product brand name

Data sheet 3RW5245-2AC15



SIRIUS soft starter 200-600 V 315 A, 110-250 V AC spring-type 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 	3RW5980-0HS00
 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 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2580-6HN32-0AA0; 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 	3NE1334-2: Type of coordination 2. Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3336; Type of coordination 2, Iq = 65 kA
eneral 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 approval	Yes

SIRIUS

CSA approval

• HMI-Standard

• HMI-High Feature

product component is supported

product feature integrated bypass contact system

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 V
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 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 	315 A
at 50 °C rated value	279 A
• at 60 °C rated value	255 A
operational current at inside-delta circuit	
at 40 °C rated value	546 A
• at 50 °C rated value	483 A
at 60 °C rated value	442 A
operating voltage	
• rated value	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	_ 10 % -15 %
relative negative tolerance of the operating voltage at inside-delta circuit	-10 /0

relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	90 kW
• at 230 V at inside-delta circuit at 40 °C rated value	160 kW
• at 400 V at 40 °C rated value	160 kW
• at 400 V at inside-delta circuit at 40 °C rated value	315 kW
• at 500 V at 40 °C rated value	200 kW
• at 500 V at inside-delta circuit at 40 °C rated value	355 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	135 A
at rotary coding switch on switch position 2	147 A
 at rotary coding switch on switch position 3 	159 A
at rotary coding switch on switch position 4	171 A
at rotary coding switch on switch position 5	183 A
at rotary coding switch on switch position 6	195 A
at rotary coding switch on switch position 7	207 A
at rotary coding switch on switch position 8	219 A
at rotary coding switch on switch position 9	231 A
at rotary coding switch on switch position 10	243 A
at rotary coding switch on switch position 11	255 A
at rotary coding switch on switch position 12	267 A
at rotary coding switch on switch position 13	279 A
at rotary coding switch on switch position 14	291 A
at rotary coding switch on switch position 15	303 A
at rotary coding switch on switch position 16 at rotary coding switch on switch position 16	315 A
minimum	135 A
adjustable motor current	100 A
for inside-delta circuit at rotary coding switch on switch position 1	234 A
 for inside-delta circuit at rotary coding switch on switch position 2 	255 A
 for inside-delta circuit at rotary coding switch on switch position 3 	275 A
 for inside-delta circuit at rotary coding switch on switch position 4 	296 A
 for inside-delta circuit at rotary coding switch on switch position 5 	317 A
 for inside-delta circuit at rotary coding switch on switch position 6 	338 A
 for inside-delta circuit at rotary coding switch on switch position 7 	359 A
 for inside-delta circuit at rotary coding switch on switch position 8 	379 A
 for inside-delta circuit at rotary coding switch on switch position 9 	400 A
for inside-delta circuit at rotary coding switch on switch position 10	421 A
for inside-delta circuit at rotary coding switch on switch position 11 for inside delta circuit at rotary coding switch on	442 A
for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on	462 A 483 A
 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on 	504 A
ior inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on	525 A
switch position 15	02071

 for inside-delta circuit at rotary coding switch on 	546 A
switch position 16	
at inside-delta circuit minimum	234 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
at 40 °C after startup	107 W
at 50 °C after startup	96 W
at 60 °C after startup	89 W
·	09 W
power loss [W] at AC at current limitation 350 %	E 0 = 0 1 1 1
• at 40 °C during startup	5 350 W
 at 50 °C during startup 	4 471 W
at 60 °C during startup	3 934 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply	-15 %
voltage at AC at 50 Hz	10 /0
relative positive tolerance of the control supply	10 %
voltage at AC at 50 Hz	
relative negative tolerance of the control supply	-15 %
voltage at AC at 60 Hz	
relative positive tolerance of the control supply	10 %
voltage at AC at 60 Hz	
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	
relative positive tolerance of the control supply	10 %
voltage frequency	
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	100 mA
locked-rotor current at close of bypass contact	2.2 A
maximum	
inrush current peak at application of control supply voltage	12.2 A
maximum	
duration of inrush current peak at application of control	2.2 ms
supply voltage	Variator
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	not part of doops of dapping
	4
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	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
mounting position	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
forwards	10 mm

• Lackwards • Opmands • Odwnwards • All the side		
of the side		
weight without packaging Connections' Transinists Type of electrical connection of rom an current circuit of rom for control circuit of poll no cable lug for main contacts finely stranded of poll No cable lug for main contacts finely stranded type of connectable conductor cross-sections of poll No cable lug for main contacts finely stranded type of connectable conductor cross-sections of poll No cable lug for main contacts finely stranded type of connectable conductor cross-sections of poll No cable lug for main contacts finely stranded type of connectable conductor cross-sections of poll No cable lug for main contacts finely stranded with core end processing of at AWG cables for control circuit finely stranded with core end processing of at AWG cables for control circuit finely stranded with core end processing of a standard and motor maximum of at the diplat inputs at AC maximum of a sudilary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals 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	• upwards	100 mm
Weight without packaging 9.9 kg	downwards	75 mm
Vigo of electrical connection • for control circuit • for control circuit • for control circuit • for control circuit • for pDN cable lug for main contacts finely stranded • for DDN cable lug for main contacts finely stranded • for DDN cable lug for main contacts finely stranded • for DDN cable lug for main contacts finely stranded • for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for control circuit finely stranded with core end processing • al AWG cables for standard and contacts with screw-type terminals • for main contacts with screw-type terminals • during		5 mm
type of electrical connection		9.9 kg
• for main current circuit • for control circuit with of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded by por 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 finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • at Wiscontrol circuit finely stranded with core end processing • 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 scr	Connections/ Terminals	
with of connectable conductor cross-sections • for DIN cable lug for main contacts stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded type of connectable conductor cross-sections • for control circuit flowly stranded type of connectable conductor cross-sections • for control circuit flowly stranded with core end processing • at AWG cables for control circuit flowly stranded with core end processing • at AWG cables for control circuit flowly stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • tightnening 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 fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with scr	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 For DIN cable lug for main contacts finely stranded For DIN cable lug for main contacts finely stranded For DIN cable lug for main contacts finely stranded For Control circuit solid For control circuit solid For control circuit solid For control circuit finely stranded with core end processing For control circuit finely stranded with core end processing For Control	for main current circuit	busbar connection
type of connectable conductor cross-sections • for DIN cable lig for main contacts stranded • for DIN cable lig for main contacts freely 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 finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at the digital inputs at AC 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	for control circuit	spring-loaded terminals
• for DIN cable lug for main contacts stranded to For DIN cable lug for main contacts finely stranded 2x (70 240 mm²) type of connectable conductor cross-sections • for control circuit solid		45 mm
For DIN cable lug for main contacts finely stranded 2x (70 240 mm²) 2x (0.25 1.5 mm²)	type of connectable conductor cross-sections	
type of connectable conductor cross-aections • for control circuit solid • for control circuit solid • for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m tiphtening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for an incontacts with screw-type terminals • for arailiary and control contacts with screw-type terminals • for arailiary 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 storage and transport • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • PROFINET standard • P	 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 • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • to for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts 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 scre	for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m 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 mailitude at height above sea level maximum ambient conditions installation allitude at height above sea level maximum ambient temperature • 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 • during transport acc. to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • ves • ves *Ves *Ves	type of connectable conductor cross-sections	
e at AWG cables for control circuit solid e at AWG cables for control circuit finely stranded with core end processing wire length e between soft starter and motor maximum e at the digital inputs at AC maximum 100 m tightening torque e 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 e for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature e during storage and transport e during operation e during storage acc. to IEC 60721 during storage acc. to IEC 60721 during transport acc. to IEC 60721 eduring transport acc. to IEC 60721 eduring transport acc. to IEC 60721 eduring transport acc. to IEC 60721 during transport acc. to IEC 60721 eduring transport acc. to IEC 6072	 for control circuit solid 	
at AWG cables for control circuit finely stranded with core end processing wire length between soft starter and motor maximum at the digital inputs at AC maximum 100 m litiphtening torque 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 storage and transport during operation during operation during operation during operation ac. to IEC 60721 during operation ac. 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 PROFINET standard PROFINET standard PROFINET standard Sea Profined PROFINET standard Sea Profined Proficeol communication module for High Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V according to UL Bushle for Standard Faults at 460/480 V accordin	· · · · · · · · · · · · · · · · · · ·	2x (0.25 1.5 mm²)
wire length	 at AWG cables for control circuit solid 	2x (24 16)
• between soft starter and motor maximum • at the digital inputs at AC maximum 100 m 100		2x (24 16)
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 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 Amblent conditions installation altitude at height above sea level maximum amblent temperature • during operation • during operation • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage and transport • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — Standard Faults at 460/480 V according to UL — Standard Faults at 460/480 V ac	wire length	
tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts of 40 °C or above calcular and screw-type terminals • for auxiliary and contension on	 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 **Amblent conditions** installation altitude at height above sea level maximum **ambient temperature** • during operation • during operation • during storage and transport • during operation acc. to IEC 60721 • 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 • Communication/Protocol **Communication/Protocol** **Communication module is supported** • PROFINET standard • PROFINET standard • PROFINET standard • PROFIBUS **ULICSA ratings** **manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at **Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA **Siemens type: 3VA54, max. 600 A; Iq = 18 kA **Siemens type: 3VA54, max. 600 A; Iq = 18 kA	at the digital inputs at AC maximum	100 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 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • 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 • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus RTU • Usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	tightening torque	
tightening torque [ibf-in] • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for maxiliary 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 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 • Communication Protocol EMC emitted interference • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA	 for main contacts with screw-type terminals 	14 24 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 • 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 • during transport acc. to IEC 60721 • Cemurated interference Communication/ Protocol communication/ Protocol communication/ Protocol communication/ Protocol communication/ Protocol communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus RTU • Modbus RTU • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA		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 storage acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication Protocol communication Protocol communication Protocol communication Protocol • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • PROFIBUS DL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	tightening torque [lbf·in]	
Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above during storage and transport -40 +80 °C environmental category during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 4K6 (no) coasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication/ Protocol Communication module is supported PROFINET standard Yes 4EtherNet/IP Yes Modbus TCP Yes PROFIBUS Yes	•••	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 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 DIJCSA ratings manufacturier's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at ivalia (2.5 +60 °C; Please observe derating at temperatures of 40 °C or above -25 +60 °C; Please observe derating at temperatures of 40 °C or above -25 +60 °C; Please observe derating at temperatures of 40 °C or above -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported PROFINET standard Yes EtherNet/IP Yes PROFIBUS Yes Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	 for auxiliary and control contacts with screw-type 	7 10.3 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 module is supported PROFINET standard PROFINET standard PROFIBUS Tyes Modbus TCP PROFIBUS Tyes PROFIBUS Tubel for Standard Faults at 460/480 V according to UL Bushle for High Faults at 460/480 V according to UL Bushle for Standard F	torminala	
ambient temperature • during operation • during storage and transport • 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 module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS Tyes • PROFIBUS Tyes UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA		
 during operation during storage and transport 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 PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS PROFIBUS PROFIBUS Tyes PROFIBUS Modbus TCP PROFIBUS Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	Ambient conditions	5 000 m; Derating as of 1000 m, see catalog
• 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 • douring transport acc. to IEC 60721 • during transport acc. to IEC 60947-4-2: Class A Communication module is supported • PROFINET standard • PROFINET standard • PROFIBUS • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS DL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	Ambient conditions 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 EMC emitted interference communication Protocol communication module is supported • PROFINET standard • ROFINET standard • ROFINET standard • PROFIBUS • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	Ambient conditions installation altitude at height above sea level maximum ambient temperature	
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 Protocol communication module is supported • PROFINET standard • ROFINET standard • ROFINET standard • PROFIBUS • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or
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 module is supported PROFINET standard PROFIBUS PROFIBUS ves ves proficuit breaker usable for Standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
 during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus RTU PROFIBUS PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
 during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS PROFIBUS Yes IL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt
EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus RTU PROFIBUS Yes PROFIBUS Ves PROFIBUS Ves Ves Ves Ves Ves Ves Ves Ve	Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
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 circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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
communication module is supported PROFINET standard PROFINET standard PROFINET standard Pres Modbus RTU Modbus RTU PROFIBUS PROFIBUS Ves PROFIBUS Ves PROFIBUS Ves Ves Ves Ves PROFIBUS Ves Ves Ves Ves Ves Ves Ves Ve	Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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)
 PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS PROFIBUS Yes PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • 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	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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)
 EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Yes PROFIBUS Yes Ves Ves Ves UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • 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	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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)
 Modbus RTU Modbus TCP PROFIBUS Yes Yes Yes Yes Yes Yes Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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)
 Modbus TCP PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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
● PROFIBUS UL/CSA ratings manufacturer's article number ● of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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
## Discrete Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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
manufacturer's article number ◆ of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	installation altitude at height above sea level maximum ambient temperature • during operation • 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 module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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 Yes
 of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	installation altitude at height above sea level maximum ambient temperature • during operation • 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 module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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 Yes Yes Yes
 — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA 	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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 Yes Yes Yes
according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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 Yes Yes Yes
to UL kA — usable for Standard Faults at 460/480 V at Siemens type: 3VA54, max. 600 A; Iq = 18 kA	installation altitude at height above sea level maximum ambient temperature • during operation • 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 module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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 Yes Yes Yes
	installation altitude at height above sea level maximum ambient temperature • during operation • 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 module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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 Yes Yes Yes Yes
inside-delta circuit according to UL	installation altitude at height above sea level maximum ambient temperature • during operation • 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 module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (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 Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65

- usable for High Faults at 460/480 V at inside-Siemens type: 3VA54, max. 600 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3VA54, max. 600 A; Iq = 18 kA inside-delta circuit according to UL • of the fuse - usable for Standard Faults up to 575/600 V Type: Class J / L, max. 1000 A; Iq = 18 kA according to UL - usable for High Faults up to 575/600 V Type: Class J / L, max. 1000 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class J / L, max. 1000 A; Iq = 18 kA circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1000 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value 75 hp • at 220/230 V at 50 °C rated value 100 hp • at 460/480 V at 50 °C rated value 200 hp at 575/600 V at 50 °C rated value 250 hp • at 200/208 V at inside-delta circuit at 50 °C rated 150 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 200 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 400 hp value • at 575/600 V at inside-delta circuit at 50 °C rated 500 hp value R300-B300 contact rating of auxiliary contacts according to UL 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=3RW5245-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5245-2AC15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC15

Characteristic: Tripping characteristics, I²t, Let-through current

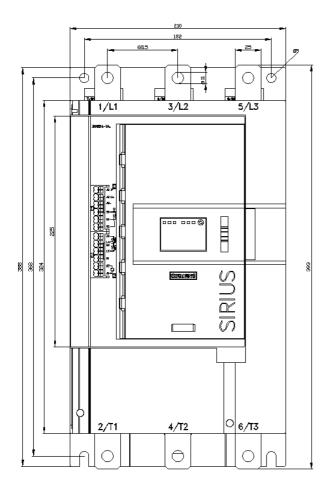
https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC15/char

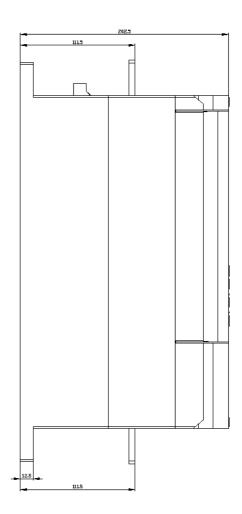
Characteristic: Installation altitude

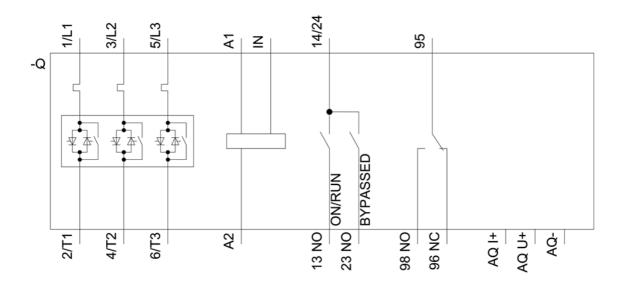
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5245-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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