## **SIEMENS**

Data sheet 3RW5245-2TC15



SIRIUS soft starter 200-600 V 315 A, 110-250 V AC spring-type terminals Thermistor input

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</u>
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1334-2; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3336; Type of coordination 2, Iq = 65 kA

General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
<ul> <li>CE marking</li> </ul>	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3

trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
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	600.1/
between main and auxiliary circuit     shock resistance	600 V
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
	15 mm to 6 Hz; 2g to 500 Hz AC 53a
utilization category according to IEC 60947-4-2 reference code according to IEC 81346-2	Q Q
Substance Prohibitance (Date)	02/15/2018
product function	02/13/2010
• 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; Full motor protection (thermistor motor protection and electronic
Timotor eveneda protestion	motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
<ul> <li>remote reset</li> </ul>	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
<ul><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
• torque control	No
analog output	No
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	F40 A
• at 40 °C rated value	546 A
• at 50 °C rated value	483 A
at 60 °C rated value	442 A
operating voltage	200 600 V
rated value     at incide delta circuit rated value	200 600 V
at inside-delta circuit rated value  relative regative telegrapes of the operating voltage.	200 600 V -15 %
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	10 %
relative positive tolerance of the operating voltage	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	

at 220 V at 40 °C rated value	00 1444
• 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
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	315 kW
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	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	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	135 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	147 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	159 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	171 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	183 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	195 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	207 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	219 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	231 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	243 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	255 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	267 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	279 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	291 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	303 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	315 A
• minimum	135 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	234 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	255 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	275 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	296 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	317 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	338 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	359 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	379 A
for inside-delta circuit at rotary coding switch on switch position 9      for inside delta circuit at rotary coding switch on	400 A
for inside-delta circuit at rotary coding switch on switch position 10     for inside delta circuit at rotary coding switch on	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 462 A
for inside-delta circuit at rotary coding switch on switch position 12     for inside-delta circuit at rotary coding switch on	483 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	483 A 504 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	525 A
switch position 15     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
	10 70, 1 Clative to sitialical actionic ic
power loss [W] for rated value of the current at AC	

<ul> <li>at 40 °C after startup</li> </ul>	107 W
<ul> <li>at 50 °C after startup</li> </ul>	96 W
at 60 °C after startup	89 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	5 350 W
<ul> <li>at 50 °C during startup</li> </ul>	4 471 W
<ul> <li>at 60 °C during startup</li> </ul>	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 voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply	10 %
voltage at AC at 50 Hz	
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 % 
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
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 maximum	2.2 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
• backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	9.9 kg
Connections/ Terminals	
type of electrical connection	
type of electrical collification	

In the control circuit with of connection bar maximum spring-ploated terminals spring-ploated spring	for main current circuit	busbar connection
with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-sections = 0.5 mm² maximum  * with conductor cross-sections = 0.5 mm² maximum  * with conductor cross-sections = 0.5 mm² maximum  * yee of connectable conductor cross-sections • for DIX cable lug for main contacts sharedd • for DIX cable lug for main contacts sharedd • for CiNic table lug for main contacts sharedd • for control circuit solid • of control circuit solid • of control circuit solid • at AWG cables for control circuit solid • at the digital injust is at AC maximum • at t		
with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-sections • 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 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 a finely cables for control circuit finely stranded with core end processing • at a finely cables for control circuit finely stranded with core end processing • at a finely cables for control circuit finely stranded with core end processing • at a finely cables for control circuit finely stranded with core end processing • at a finely cables for control circuit finely stranded with core end processing • at a finely cables for control circuit finely stranded with core end processing • at a finely cables for control circuit finely stranded with core end processing • at a finely cables for control circuit finely stranded with core end processing • at a finely cables for stranded end to contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for		
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type of connectable conductor cross-sections is for DIN cable tup for main contacts stranded is for DIN cable tup for main contacts stranded is for DIN cable tup for main contacts stranded is for DIN cable tup for main contacts in the light stranded with core end processing is for control circuit solid is at AWG cables for control circuit solid is at AWG cables for control circuit finely stranded with core end processing with longth is between soft starfer and motor maximum is the light stranded with screw-type terminals is between soft starfer and motor maximum is the digital inputs at AC maximum  Itghtneling torque is for main contacts with screw-type terminals is for auxiliary and control contacts with screw-type terminals is for		
type of connectable conductor cross-sections		
* for DN cable lug for main contacts stranded * for DN cable lug for main contacts finely stranded * 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 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 * 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 * during operation according to IEC 60721 * during op		250 m
type of connectable conductor cross-sections of control circuit solid of a AWC cables for control circuit finely stranded with core end processing  wire length  • between soft starter and motor maximum of at the digital inputs at AC maximum of at the digital inputs at AC maximum of max	· ·	
Vippo of connectable conductor cross-sections   of crontrol circuit solid   2x (0.25 1.5 mm²)	_	
• 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  wire length • between soft starter and motor maximum • at the deligial inputs at AC maximum  • of main contacts with screw-type terminals • for availage and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for availage and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for availage and control contacts		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 injust at AC maximum 100 m • at the digital injust at AC maximum 11 stiptening 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 for auxillary and control contacts with screw-type terminals • for for auxillary and control contacts with screw-type terminals • for for auxillary and control contacts with screw-type terminals • for for auxillary and control contacts with screw-type terminals • for for auxillary and control contacts with screw-type terminals • for auxillary and tontrol contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for contacts with screw-type terminals • for contacts with screw-type terminals • for		
processing		· ·
at AWC 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 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  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during storage and transport  • during storage and transport  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during storage according to IEC 60721  • communication Protocol  communication Protocol  communication Protocol  vector in the devices), 1/M  • processional condensation), 3C3 (no salt mist), 1S2 (sand must not get inside the devices), 1/M  • procession		2x (0.25 1.5 mm²)
core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for flap f		
• between soft starter and motor maximum     • at the digital inputs at AC maximum     100 m     • at the digital inputs at AC maximum     100 m     • 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     • during and control contacts with screw-type terminals     • during operation     • during operation     • during operation     • during operation     • during storage and transport     • d		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  tightening torque [tbf-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 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  124 24 N·m  0.8 12 N·m  124 210 lbf-in  7 10.3 lbf-in  124 210 lbf-in  7 10.3 lbf-in  124 210 lbf-in  7 10.3 lbf-in  125 +60 °C; Please observe derating at temperatures of 40 °C or above  240 +80 °C  environmental category • during operation according to IL  40 +80 °C  3K6 (no lec formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside 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 69947.4-2: Class A  2February (max. fall height 0.3 m)  acc. to IEC 6994	wire length	
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 termina	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts 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  124 210 lbf-in  7 10.3 lbf-in  12	at the digital inputs at AC maximum	100 m
tightening torque [lbFin]  for main contacts with screw-type terminals  for main contacts with screw-type in for main contacts with screw-type terminals  for main care and for main contacts with screw-type terminals  for main care and for main contacts with screw-type terminals  for main care and for main contacts with screw-type terminals  for main care and for main contacts with screw-type terminals  for contacts with screw-type terminals  for main care and for main contacts with screw-type terminals  for main care and for main care an	tightening torque	
tightening torque [lbf·in]  • for main 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 storage and transport  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication / Protocol  communication / Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus TCP  • PROFIBUS  ULCSA 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 inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at coording to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard	<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
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  Ambient conditions installation althude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during geration according to IEC 60721  • during operation according to IEC 60721  • during geration according to IEC 60721  • during storage according to IEC 60721  • during transport acc	<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • Adving transport according to IEC 60721 • Communication interference  accommunication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS   Tyes • Modbus TCP • PROFIBUS   TUCSA 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 inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for		
• 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 peration according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721  EMC emitted interference communication Protocol  communication Protocol  communication module is supported • PROFIBUS  PROFIBUS  DUCSA 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 inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V at 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	tightening torque [lbf·in]	
Ambient conditions installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during ransport according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication / Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  proside for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 4575/600 V according to UL  — usable for Standard Faults at 575/600 V at 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	<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at cold facility and the standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V at  Siemens type: 3VA54, max. 600 A; lq = 18 kA  Siemens type: 3VA54, max. 600 A; lq = 18 kA		7 10.3 lbf·in
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during genation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFIBUS   ULCSA 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 inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at cording to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at cording to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V a		
ambient temperature  • during operation  • during storage and transport  • during storage and transport  • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during to IEC 60721   * 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6   • K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6   • K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6   • K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6   • K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6   • K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6   • K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6   • K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6  • Le Condensation of the devices), 1M2  • Le Condensation of the devices, 1M2  • Le Condensation of the devices, 1M	Ambient conditions	
<ul> <li>• during operation</li> <li>• during storage and transport</li> <li>• during storage and transport</li> <li>• during operation according to IEC 60721</li> <li>• during operation according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during transport according to IEC 60721</li> <li>• during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>Communication module is supported</li> <li>• PROFINET standard</li> <li>• PROFIBUS</li> <li>• Modbus RTU</li> <li>• PROFIBUS</li> <li>ULCSA ratings</li> <li>manufacturer's article number</li> <li>• of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li></li></ul>	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
oduring storage and transport     oduring operation according to IEC 60721     oduring storage according to IEC 60721     oduring storage according to IEC 60721     oduring storage according to IEC 60721     oduring transport according to IE	ambient temperature	
environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFIBUS  Wes  • 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 inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for	during operation	
• during operation according to IEC 60721     • during storage according to IEC 60721     • during storage according to IEC 60721     • during transport ac	during storage and transport	-40 +80 °C
* during storage according to IEC 60721     * during transport according to IEC 60721  EMC emitted interference     * during transport according to IEC 60721  EMC emitted interference     * during transport according to IEC 60721  EMC emitted interference  ** during transport according to IEC 60721  ** during transport according to IEC 60721  EMC emitted interference  ** during transport according to IEC 60721  ** during transport according to I	environmental category	
oduring transport according to IEC 60721	<ul> <li>during operation according to IEC 60721</li> </ul>	
EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus RTU  • Modbus TCP  • 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 at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at  Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  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  Siemens type: 3VA54, max. 600 A; Iq = 18 kA	<ul> <li>during storage according to IEC 60721</li> </ul>	not get inside the devices), 1M4
communication / Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS  Tyes • PROFIBUS  Wes  • 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 High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — us	during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  Pres  EtherNet/IP  Modbus RTU  Pres  Modbus TCP  PROFIBUS  Wes  PROFIBUS  Wes  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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable	EMC emitted interference	acc. to IEC 60947-4-2: Class A
<ul> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Ves</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul>	Communication/ Protocol	
<ul> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul>	communication module is supported	
Modbus RTU  Modbus TCP  PROFIBUS  Yes  Ves  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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  Siemens type: 3VA54, max. 600 A; Iq = 18 kA  Siemens type: 3VA54, max. 600 A; Iq = 18 kA	PROFINET standard	Yes
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>Siemens type: 3VA54, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul> 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 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	EtherNet/IP	Yes
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>Siemens type: 3VA54, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul> 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 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	Modbus RTU	Yes
● PROFIBUS  WL/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 inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA		
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<ul> <li>■ of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul>		
<ul> <li>• of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul>		
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul>		
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to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at 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	according to UL	
inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside- delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at  Siemens type: 3VA54, max. 600 A; Iq max = 65 kA  Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA  Siemens type: 3VA54, max. 600 A; Iq = 18 kA	to UL	kA
delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 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	inside-delta circuit according to UL	<b>2</b> ,
according to UL  — usable for Standard Faults at 575/600 V at  Siemens type: 3VA54, max. 600 A; Iq = 18 kA	delta circuit according to UL	
	according to UL	
		Siemens type: 3VA54, max. 600 A; Iq = 18 kA

## 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 to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value

• 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 value	150 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	200 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	400 hp
• at 575/600 V at inside-delta circuit at 50 °C rated	500 hp

contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	in accordance with IEC 60947-4-2

75 hp

Certificates/ approvals

value

**General Product Approval** 

**EMC** 





Confirmation



Type: Class J / L, max. 1000 A; Iq = 18 kA

Type: Class J / L, max. 1000 A; Iq = 100 kA

Type: Class J / L, max. 1000 A; Iq = 18 kA

Type: Class J / L, max. 1000 A; Iq = 100 kA





**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

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=3RW5245-2TC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5245-2TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2TC15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5245-2TC15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2TC15/char">https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2TC15/char</a>

Characteristic: Installation altitude
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5245-2TC15&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5245-2TC15&objecttype=14&gridview=view1</a>

Simulation Tool for Soft Starters (STS)

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

4/10/2022 last modified: