# **SIEMENS**



Data sheet 3RW5536-2HF04



SIRIUS soft starter 200-480 V 171 A, 24 V AC/DC spring-type terminals Fail-safe

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
<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 PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<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>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3365-6; 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>	3NE1230-0; 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>	3NE3334-0B; Type of coordination 2, Iq = 65 kA
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN 62061</li> </ul>	<u>3RT1065</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN 62061</li> </ul>	<u>3RT1065</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN ISO 13849-1</li> </ul>	<u>3RT1075</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN ISO 13849-1</li> </ul>	<u>3RT1075</u>
eneral technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %

stopping torque [%]	10 100 %
torque limitation [%]	10 100 % 20 200 % 125 800 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class according to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</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 / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/22/2019
product function	
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down     DC bysking	Yes
DC braking	Yes
motor heating	Yes
slave pointer function     trees function	Yes
trace function     intrinsic device protection	Yes Yes
intrinsic device protection	
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<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
• remote reset	Yes
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes
event list	Yes

<ul><li>error logbook</li></ul>	Yes Yes Yes
<ul> <li>via software parameterizable</li> </ul>	Yes
<ul> <li>via software configurable</li> </ul>	
screw terminal	No
spring-loaded terminal	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
<ul><li>voltage ramp</li></ul>	Yes
<ul> <li>torque control</li> </ul>	Yes
<ul> <li>combined braking</li> </ul>	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
application wizards	Yes
alternative run-down	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul><li>reversing operation</li></ul>	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
• at 40 °C rated value	171 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	34 A
at 50 °C rated value	153 A
at 60 °C rated value	141 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	296 A
<ul> <li>at 50 °C rated value</li> </ul>	265 A
at 60 °C rated value	244 A
operating voltage	
rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	_ 10 % 15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	451114
• at 230 V at 40 °C rated value	45 kW
at 230 V at inside-delta circuit at 40 °C rated value     at 400 V at 40 °C rated value	90 kW
• at 400 V at 40 °C rated value	90 kW
at 400 V at inside-delta circuit at 40 °C rated value	160 kW
Operating frequency 1 rated value	50 Hz 60 Hz
Operating frequency 2 rated value relative negative tolerance of the operating frequency	-10 %
relative negative tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	51 W
at 50 °C after startup	46 W
at 60 °C after startup	42 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 393 W
at 50 °C during startup	2 038 W
• at 60 °C during startup	1 814 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
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control supply voltage at AC	24 V dientudong
<ul> <li>at 50 Hz rated value</li> </ul>	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	870 mA
locked-rotor current at close of bypass contact maximum	6.3 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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
design of short-circuit protection for control circuit  Inputs/ Outputs	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is
	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is
Inputs/ Outputs	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	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  • with fail-safe • parameterizable	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 2
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable  number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable  number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable  number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum Installation/ mounting/ dimensions	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions mounting position fastening method height	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum Installation/ mounting/ dimensions mounting position fastening method height width	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable  number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions mounting position fastening method height width depth	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable  number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm
Inputs/ Outputs  number of digital inputs  with fail-safe parameterizable  number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable number of digital outputs not parameterizable digital output version  number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting  • forwards  • backwards	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards	circuit breaker (Icu= 600 A), Č6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 3 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm
Inputs/ Outputs  number of digital inputs  • with fail-safe  • parameterizable  • number of digital outputs  • Number of digital outputs with fail-safe  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting  • forwards  • backwards	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  4 1 4 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)  1 3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm

Commediation 1 Frimmals  Vipo of electrical connection  • for control circuit  • for control circuit  • for control circuit  • for control circuit  • with conductor cross-section = 0.5 min' maximum  • with conductor cross-section = 0.5 min' maximum  viwit conductor cross-section = 2.5 min' maximum  type of connectable conductor cross-sections  • for DN cable lug for main contacts stranded  • for DN cable lug for main contacts stranded  • for control circuit sloid  • at AWC cables for control circuit solid  • at the digital inputs at DC maximum  • to the digital inputs at DC maximum  • to main contacts with screw-type terminals  • for availaginy and control contacts with screw-type terminals  • for availaginy and control contacts with screw-type  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for availaginy and control contacts with screw-type  • for main contacts with screw-type terminals  • for availaginy and control contacts with screw-type  • for main contacts with screw-type  • fo	weight without packaging	9.1 kg
type of electrical connection  • for main current circuit  • for control circuit  • will conductor cross-section = 0.5 mm² maximum  • will conductor cross-section = 1.5 mm² maximum  • will conductor cross-sections • for DIN cable lug for main contacts finely standed  • for DIN cable lug for main contacts finely standed  • for DIN cable lug for main contacts finely standed  • for control circuit solid • for control circuit finely standed 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 DC maximum  • at maximum and the control circuit solid  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals • for auxi		\diantudana
• for main current circuit • for control Circuit  width of connection bar maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts straded • for DIN cable lug for main contacts straded • for DIN cable lug for main contacts straded • for Coll 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 • 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 DC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with screw-type terminals • for auciliary and control contacts with		/uttituuuiu
with or control circuit with for connection bar maximum  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-sections  of critical circuit solid  of critical conductor cross-sections  of critical circuit solid  of control circuit 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 maximum  with length  observed and the control circuit finely stranded with core end processing  of maximum  of maximu		husbar connection
with ength for control circuit solid at the digital inputs at DC maximum between shift starter and motor maximum at the digital inputs at DC maximum between shift starter and motor maximum at the digital inputs at DC maximum between shift starter and motor maximum at the digital inputs at DC maximum between shift starter and motor maximum at the digital inputs at DC maximum between shift starter and motor maximum between shift starter and motor maximum at the digital inputs at DC maximum between shift starter and motor maximum between shift starter shift starter shift s		
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-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  • for DIN cable lug for main contacts finely stranded  • for control circuit shell • at AWG cables for control circuit shell • at AWG cables for control circuit finely stranded with core end processing • for control circuit shell • at AWG cables for control circuit finely stranded with core end processing • wire length • between soft starter and motor maximum • at the dejtal injust at DC maximum • at the dejtal injust at DC maximum • at the dejtal injust at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts wit		
• with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for control circuit 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 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 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 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 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		25 (1111)
• with conductor cross-section = 1.5 mm² maximum • with conductor cross-sections = 1.5 mm² maximum • with conductor cross-sections • for DIN cable lug for main contacts stranded for DIN cable lug for main contacts stranded conductor cross-sections • for control circuit finely stranded with core end processing • 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 • at AWG cables for control circuit finely stranded with core end processing • at the digital inputs at DC maximum • between soft starter and motor maximum • between soft starter and motor maximum • between soft starter and motor maximum • for auxiliary and control contacts with screw-type terminals • for form in contacts with screw-type terminals • for form in contacts with screw-type terminals • for form in contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • durin	_	50 m
evilt conductor cross-sections   2.5 m² m² maximum   250 m   2 m² m² maximum   250 m   2 m²		
type of connectable conductor cross-sections		
• for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for control circuit 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 the digital inputs at DC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type termi		250 111
type of connectable conductor cross-sections of 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 DC maximum at the digital inputs at DC maximum at the digital inputs at DC maximum  or at the digital inputs at DC maximum  in at the digital inputs at DC maximum  or at the digital inputs at DC maximum  or at the digital inputs at DC maximum  or a wailiary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals  for auxiliary and control contacts with screw-type terminals  of o		2v (16 05 mm²)
type of connectable conductor cross-sections  • for control circuit solid  • for control circuit solid  • 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  • 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 DC maximum  1000 m  1	_	
• 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 safer and motor maximum • at the digital injusts at DC maximum • at the digital injusts at DC maximum • at the digital injusts at DC maximum • for main contacts with screw-type terminals • for availing and control contacts with screw-type • for main contacts with screw-type terminals • for availing and control contacts with screw-type • for main contacts with screw-type terminals • for availing and control contacts with screw-type • terminals  ### Albient conditions  installation altitude at height above sea level maximum ambient conditions  installation altitude at height above sea level maximum • during storage and transport • during storage and transport • during storage and transport • during storage according to IEC 60721  **adding storage according to IEC 60721  **during through a coording to IEC 60721  **during through a coording to IEC 60721  **during through a coording to IEC 60721  **EMC emitted interference  **communication/ Protocol  communication/ Protocol  communication/ Protocol  communication/ Protocol  communication/ Protocol  communication according to IEC 60721  **Modbus RTU • Modbus RTU • See • Ether-Net/IPP • Modbus RTU • Modbus RTU • Wes • Ether-Net/IPP • Modbus RTU • Wes • Ether-Net/IPP • Modbus RTU • Modbus RTU • See See See See See See See See See Se		ZX (Z3 120 Hilli )
• for control dirouit finely stranded with core end processing • at AWC cables for control circuit solid • at AWC cables for control circuit solid • 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 DC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for maxiliary and control contacts with screw-type terminals • for maxiliary and control 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 storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET phyl-reature • PROFINET phyl-reature • PROFINET byl-reature • PROFINED • PROFIBUS    Ves   Durices   Ves   Ves   PROFIBUS   Ves   PROFIBUS   Ves   PROFIBUS   Ves   PROFIBUS   Ves   Profibus   Ves   Ves   Profibus   Ve		2x (0.25 1.5 mm²)
processing  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 DC maximum  for main contacts with screw-type terminals  for mainity and control contacts with screw-type terminals  for auxiliary and control contacts with screw-type terminals  89 124 lbf-in  7 10.3 lbf-in  89 124 lbf-in  7 10.3 lbf-in  20 000 m, see catalog  ambient temperature  during storage and transport  -25 +60 °C; Please observe derating at temperatures of 40 °C or above  40 +80 °C; Please observe derating at temperatures of 40 °C or above  at during storage according to IEC 60721  365 (no lee 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 into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (s		
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 DC maximum 1 000 m  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 main contacts with screw-type terminals for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary a		ZA (0.20 1.0 mm )
core end processing wire length	<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
wire length  • between soft starter and motor maximum  • at the digital inputs at DC maximum  1 000 m  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  Ambient conditions  Installation altitude at height above sea level maximum • during operation • during operation • during storage and transport • 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 • PROFINET standard • PROFINES • Modbus TU • Ves • PROFIBUS • Ves • PROFIBUS • Ves • PROFIBUS • Ves • Ves • PROFIBUS • Ves • PROFIBUS • Ves • Ves • PROFIBUS • Ves • Ves • Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA		2x (24 16)
between soft starter and motor maximum     at the digital inputs at DC maximum      tightening torque         for amin 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              for auxilia		
at the digital inputs at DC maximum  tightening torque  of or main contacts with screw-type terminals  of auxiliary and control contacts with screw-type terminals  of auxiliary and control contacts with screw-type terminals  of or auxiliary and control	_	800 m
tightening torque  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  tightening torque [libf·in]  • 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 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 main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type  • for main contacts with screw-type terminals  * for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type  • during at temperature of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40 +80 °C; Please observe derating at temperatures of 40 °C or above  - 40		
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals  tightening torque [librin] • 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  **Total Libria**  **Ambient Conditions**  installation altitude at height above sea level maximum  ambient temperature • during operation • during operation • during operation • during operation according to IEC 60721 • 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 transport according to IEC 60721  EMC emitted interference  communication module is supported • PROFINET high-feature • PROFINET standard • 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 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 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		1 000 111
• 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  *Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during operation  • 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 transport according to I		10 14 N·m
tightening torque [lbf·in]  • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type  • for auxiliary and control contacts with screw-type  installation altitude at height above sea level maximum  ambient conditions  installation altitude at height above sea level maximum  ambient temperature • during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Auxiliary according to IEC 60721 • Auxiliary according to IEC 60721 • Auxiliary according to IEC 60721  EMC emitted interference  communication/ Protocol  communication/ Protocol  communication module is supported • PROFINET standard • PROFI	•••	
• 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 operation 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 / Protocol  communication module is supported  • PROFINET standard • PROFINET standard • PROFINET high-feature • Modbus TCP • PROFIBUS  DL/CSA ratings  manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V a coording 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		0.0 1.2 IVIII
• 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 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 transport according to IEC 60721 • during transport according to IEC 60721  EMC emitted interference  communication Protocol  communication Module is supported • PROFINET high-feature • PROFIBUS  UL/CSA ratings  manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V a 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	tightening torque [lbf·in]	
Ambient conditions installation altitude at height above sea level maximum ambient temperature  • during operation • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • Receptive multiple	<ul> <li>for main contacts with screw-type terminals</li> </ul>	89 124 lbf·in
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721  EMC emitted interference  Communication/Protocol  communication module is supported • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU • 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 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		7 10.3 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 operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFIBUS   **Uses  **Uses  **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 inside-delta circuit according to UL  **Second of the second o		
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 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  communication module is supported  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFIBUS  • Modbus RTU  • Modbus RTU  • 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 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		
<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 storage according to IEC 60721</li> <li>tK6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>during transport according to IEC 60721</li> <li>tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>acc. to IEC 60947-4-2: Class A</li> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</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 Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> <li>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> </ul>	installation altitude at height above sea level maximum	
oluring storage and transport     environmental category     oluring operation according to IEC 60721     oluring storage according to IEC 60721     oluring storage according to IEC 60721     oluring storage according to IEC 60721     oluring transport according to IEC 60721     olurin		2 000 m, Derating as of 1000 m, see catalog
environmental category  • 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 transport according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • PROFINET high-feature  • 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 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  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	ambient temperature	
• 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 transport acco	ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or
mist), 3S2 (sand must not get into the devices), 3M6  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication / Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • 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 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  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	ambient temperature  • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
o during transport according to IEC 60721  EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication / Protocol  communication module is supported  PROFINET standard PROFINET high-feature EtherNet/IP 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 inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during transport according to IEC 60721      EMC emitted interference     acc. to IEC 60947-4-2: Class A  Communication/ Protocol  communication module is supported      PROFINET standard     PROFINET high-feature     PROFINET high-feature     EtherNet/IP     Modbus RTU     Modbus RTU     Modbus TCP     PROFIBUS  Wes PROFIBUS  Wes  ILL/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  Wes Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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
EMC emitted interference  acc. to IEC 60947-4-2: Class A  Communication/ Protocol  communication module is supported  • PROFINET standard Yes  • PROFINET high-feature 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 Standard Faults at 460/480 V at inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	<ul> <li>ambient temperature         <ul> <li>during operation</li> </ul> </li> <li>during storage and transport</li> <li>environmental category         <ul> <li>during operation according to IEC 60721</li> </ul> </li> </ul>	-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
communication/ Protocol  communication module is supported  • PROFINET standard Yes  • PROFINET high-feature 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 at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA	<ul> <li>ambient temperature</li> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> </ul>	-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 high-feature PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU 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 Standard Faults at 460/480 V at inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA	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)
PROFINET standard PROFINET high-feature PROFINET high-feature Yes EtherNet/IP Modbus RTU Modbus RTU Modbus TCP 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 at inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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)
<ul> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of 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>Siemens type: 3VA52, max. 250 A; Iq max = 65 kA</li> <li>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> </ul>	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)
<ul> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of 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 according to UL</li> <li>Siemens type: 3VA52, max. 250 A; Iq max = 65 kA</li> <li>Siemens type: 3VA52, max. 250 A; Iq max = 65 kA</li> <li>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> </ul>	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
Modbus TCP 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 at inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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 at inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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	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
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 inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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
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 inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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 Yes
<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>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> <li>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> <li>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> </ul>	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 Yes
according to UL  — usable for High Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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 Yes
<ul> <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>Siemens type: 3VA52, max. 250 A; Iq max = 65 kA</li> <li>Siemens type: 3VA52, max. 250 A; Iq = 10 kA</li> </ul>	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 Yes
— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA52, max. 250 A; Iq = 10 kA	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  Yes  Yes  Yes
	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 Yes Yes Yes Yes Yes
	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 Yes Yes Yes Yes Yes Ye

delta circuit according to UL usable for Standard Faults at 575/600 V Siemens type: 3VA according to UL - usable for High Faults at 575/600 V at inside-Siemens type: 3VA5 delta circuit according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3VA52, max. 250 A; Iq = 10 kA inside-delta circuit according to UL usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 400 A; Iq = 10 kA according to UL usable for High Faults up to 575/600 V Type: Class J / L, max. 350 A; Iq = 100 kA according to UL usable for Standard Faults at inside-delta Type: Class RK5 / K5, max. 400 A; Iq = 10 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 350 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 50 hp • at 220/230 V at 50 °C rated value 50 hp at 460/480 V at 50 °C rated value 100 hp • at 200/208 V at inside-delta circuit at 50 °C rated 75 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 100 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 200 hp value R300-B300 contact rating of auxiliary contacts according to UL Safety related data safety device type according to IEC 61508-2 Type B B10d value 500 000 Safety Integrity Level (SIL) • according to IEC 61508 SIL1 SIL Claim Limit (subsystem) according to EN 62061 SIL 1 performance level (PL) according to EN ISO 13849-1 С category according to EN ISO 13849-1 2 0 stop category according to EN 60204-1 Safe failure fraction (SFF) 60 % 90 % average diagnostic coverage level (DCavg) diagnostics test interval by internal test function 1 000 s PFHD with high demand rate according to EN 62061 1E-6 1/h PFDavg with low demand rate according to IEC 61508 0.09 hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to 20 y IEC 61508 safe state Open load circuit protection class IP on the front according to IEC IP00; IP20 with cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2 electromagnetic compatibility certificate of suitability ATEX Yes IECEx Yes according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to ATEX directive II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 2014/34/EU 0 hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.008 relating to ATEX PFHD with high demand rate according to EN 62061 5F-7 1/h relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 SIL<sub>1</sub>

### relating to ATEX

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

3 s



### Certificates/ approvals

#### **General Product Approval**





Confirmation







**EMC** 

For use in hazardous locations

**Declaration of** Conformity

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping







Confirmation

other

## **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=3RW5536-2HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5536-2HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5536-2HF04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5536-2HF04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

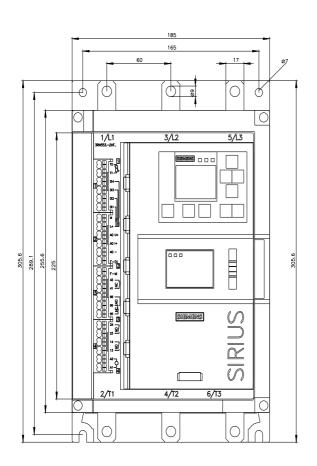
https://support.industry.siemens.com/cs/ww/en/ps/3RW5536-2HF04/char

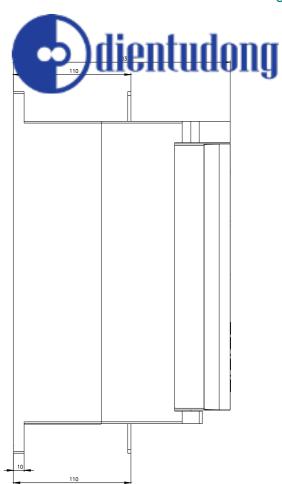
Characteristic: Installation altitude

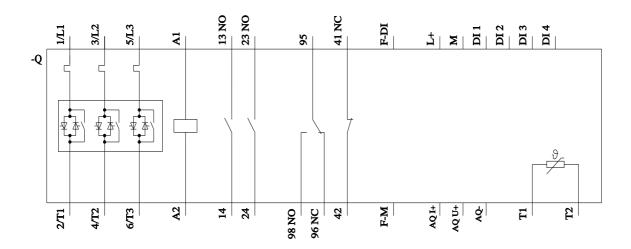
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5536-2HF04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







Hotline: 0909000786 - lam@dientudong.com



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