SIEMENS

Data sheet

3RW5527-3HA04



SIRIUS soft starter 200-480 V 93 A, 24 V AC/DC spring-type terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3136-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3136-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1224-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3227; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable

starting voltage [70]	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 [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	
CE marking	Yes
UL approval	Yes

CSA approval	Yes
product component	
HMI-High Feature	Yes
 is supported HMI-High Feature 	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
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 protective separation	
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
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)	02/15/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3
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 	Yes
DC braking	Yes
 motor heating 	Yes
 slave pointer function 	Yes
trace function	Yes
intrinsic device protection	Yes
 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.
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
 communication function 	Yes
 operating measured value display 	Yes
event list	Yes
error logbook	Yes
 via software parameterizable 	Yes
 via software configurable 	Yes
screw terminal	No
 spring-loaded terminal 	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes

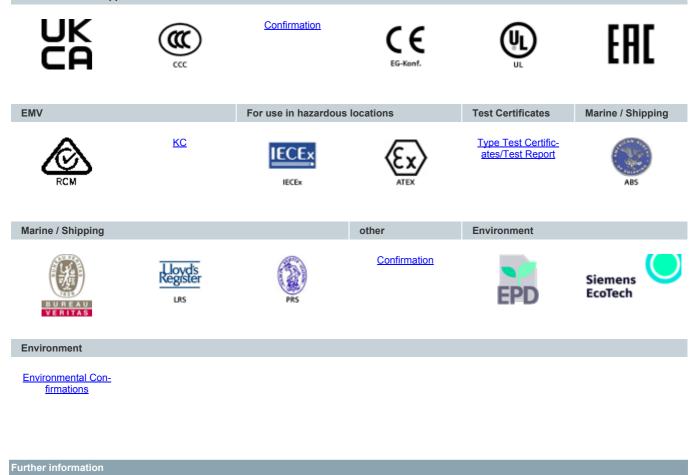
	Yes
0	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
 programmable control inputs/outputs 	Yes
condition monitoring	Yes
 automatic parameterisation 	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
 soft starting at heavy starting conditions 	Yes
wer Electronics	
perational current	
• at 40 °C rated value	93 A
• at 40 °C rated value minimum	19 A
• at 50 °C rated value	82.5 A
• at 60 °C rated value	75.5 A
operational current at inside-delta circuit	
	161 A
• at 50 °C rated value	143 A
• at 60 °C rated value	131 A
operating voltage	
	200 480 V
at inside-delta circuit rated value	200 480 V
	-15 %
	10 %
	-15 %
nside-delta circuit	
elative positive tolerance of the operating voltage at nside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	22 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	45 kW
• at 400 V at 40 °C rated value	45 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	90 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
elative negative tolerance of the operating frequency	-10 %
elative positive tolerance of the operating frequency	10 %
ninimum load [%]	10 %; Relative to set le
ower loss [W] for rated value of the current at AC	
• at 40 °C after startup	28 W
• at 50 °C after startup	25 W
• at 60 °C after startup	23 W
oower loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 258 W
• at 50 °C during startup	1 065 W
• at 60 °C during startup	948 W
ype of the motor protection	Electronic, tripping in the event of thermal overload of the motor
ntrol circuit/ Control	
ype of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	
• at 60 Hz rated value	24 V
elative negative tolerance of the control supply voltage at AC at 50 Hz	24 V 24 V
elative positive tolerance of the control supply voltage at AC at 50 Hz	24 V
AC at 50 Hz	24 ∨ -20 %

breaker (Leu © 00 A); C6 miniature circuit breaker (Icu = 300 A); Is not part of scope of supply number of digital inputs 4 • parameterizable 4 • number of digital outputs parameterizable 3 • number of digital outputs parameterizable 4 • number of digital outputs parameterizable 3 • number of aligital outputs not parameterizable 1 digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 switching capacity current of the relay outputs 1 • 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 Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 203 mm required spacing with side-by-side mounting 0 mm • lowwards 0 mm • ourwards 10 mm • lowwards 76 mm • ourwards 5 mm • ourwards 5 mm • ourowards <	relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage at DC • rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	 -10 % 10 % 24 V -20 % 20 % 440 mA 870 mA 6.3 A 7.5 A 20 ms Varistor 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
frequency Image: Control supply voltage eviative positive tolerance of the control supply voltage at Control supply voltage at D 24 V eviative and the control supply voltage at Control supply voltage at Control supply voltage at Control supply voltage at Control supply Contat Control supply voltage at Control supply voltage at Control s	frequency relative positive tolerance of the control supply voltage frequency control supply voltage at DC • rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	10 % 24 V -20 % 20 % 440 mA 870 mA 6.3 A 7.5 A 20 ms Varistor 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
frequency 24 V control supply voltage at DC 20 % relative regative tolerance of the control supply voltage at DC 20 % relative positive tolerance of the control supply voltage at DC 20 % control supply current in standay mode rated value 440 mA holding current in bypass operation rated value 53 A inrush current by closing the bypass controls supply voltage maximum 53 A inrush current peak at application of control supply voltage maximum 53 A design of short-circuit protection of control supply voltage maximum 63 A design of short-circuit protection for control circuit 4 A C for fac (user 4A), 6 A quick-acting fuse (user 1A), C1 miniature circuit breaker (user 500 A); is not part of signal outputs parameterizable number of digital inputs 4 e parameterizable 4 e unable of digital outputs parameterizable 1 e stare 200 V mole dup outputs parameterizable 1 e stare 200 V mole dup outputs parameterizable 1 e stare 200 V mole dup outputs and and size 200 V mole dup outputs 3 e stare 200 V mole dup outputs and and size 200 V mole dup outputs 3 e stare 200 V mole dup outputs and and size 200 V mole dup outputs	frequency control supply voltage at DC • rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	24 V -20 % 20 % 440 mA 870 mA 6.3 A 7.5 A 20 ms Varistor 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
• rate value 24 V relative negative tolerance of the control supply voltage at plative positive tolerance of the control supply voltage at boding current in standby mode rated value 20 % control supply current in standby mode rated value 440 mA holding current in standby mode rated value 470 mA inrush current pask at application of control supply voltage 20 ms maximum 20 ms design of the overvoltage protection Variafor design of short-circuit protection for control circuit 20 ms mumber of digital outputs 4 • parameterizable 4 • parameterizable 4 • parameterizable 3 normally-open contacts (NO) / 1 changeover contact (CO) number of digital outputs parameterizable 3 normally-open contacts (NO) / 1 changeover contact (CO) number of digital outputs parameterizable 3 normally-open contacts (NO) / 1 changeover contact (CO) number of digital outputs parameterizable 3 normally-open contacts (NO) / 1 changeover contact (CO) number of algotal outputs parameterizable 3 normally-open contacts (NO) / 1 changeover contact (CO) number of digital outputs not parameterizable 3 normally-open contacts (NO) / 1 changeover contact (CO)	rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	-20 % 20 % 440 mA 870 mA 6.3 A 7.5 A 20 ms Varistor 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
piele 20 % relation positive tolerance of the control supply voltage at DC 20 % control supply current in standby mode rated value 440 mA holding current in sysaes operation rated value 70 mA intrush current peak at application of control supply voltage maximum 63 A intrush current peak at application of control supply voltage maximum 75 A design of the overvoltage protection Varistor design of short-circuit protection for control currout elegist of short-circuit protection for control currout and unation of inputs of digital outputs 4 • number of digital outputs 4 • number of digital outputs 4 • number of digital outputs parameterizable 3 • number of digital outputs parameterizable 1 • number of digital outputs 4 • at 260 Y rated value 3 A	relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	-20 % 20 % 440 mA 870 mA 6.3 A 7.5 A 20 ms Varistor 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
pc	DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	20 % 440 mA 870 mA 6.3 A 7.5 A 20 ms Varistor 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
bc Add makes control supply current in standby mode rated value 870 mA inrush current by closing the bypass contacts maximum 6.3 A inrush current peak at application of control supply voltage maximum 7.5 A design of inrush current peak at application of control supply voltage 20 ms design of short-circuit protection for control circuit Varisfor design of short-circuit protection for control circuit 4.4 gG Sase ((cur 1 AA), 6.4 quick acting fuse ((cur 1 AA), C1 ministure circuit breaker ((ise 300 A), C6 ministure circuit (CO) number of digital outputs on parameterizable 1 number of digital outputs on parameterizable 1 satch C15 at 250 V	DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	 440 mA 870 mA 6.3 A 7.5 A 20 ms Varistor 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
holding current in bypass operation rated value 870 mA inrush current by closing the bypass contacts maximum 6.3 A inrush current peak at application of control supply voltage 7.5 A maximum 7.5 A design of the overvoltage protection Varistor design of the overvoltage protection for control circuit 4.4 gG fuse (cu=1 kA), 6.A quick-acting fuse (cu=1 kA), C1 miniature circuit breaker (cu= 800 A), C6 miniature circuit breaker (cu= 800 A), is not part of socope of supply number of digital inputs 4 • parameterizable 4 • number of digital outputs parameterizable 4 • number of digital outputs parameterizable 1 • number of digital outputs not parameterizable 1 • number of digital outputs not parameterizable 1 • at DC-15 at 24 V rated value 3 A • at DC-15 at 250 V rated value 3 A • at DC-15 at 24 V rated value 3 A • at DC-15 at 24 V rated value 3 A • at DC-15 at 24 V rated value 3 A • at DC-15 at 24 V rated value 3 A • at DC-15 at 24 V rated value 3 A • at DC-15 at 24 V rated value 3 A	holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	 870 mA 6.3 A 7.5 A 20 ms Varistor 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
Inrush current pak at application of control supply voltage maximum 6.3 A Inrush current pak at application of control supply voltage duration of inrush current peak at application of control supply voltage 7.8 A duration of inrush current peak at application of control supply voltage 20 ms design of the overvoltage protection Varistor design of the overvoltage protection for control circuit 4 A of Kuse (lcu=1 KA), 6 A quick-acting fuse (lcu=1 KA), C1 miniature circuit breaker (lcu= 300 A), is not part of scope of supply inputs/ Outputs 4 • parameterizable 4 • number of digital outputs 4 • number of digital outputs parameterizable 3 • number of digital outputs ont parameterizable 1 digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of digital outputs at 200 V rated value 3 A • at C-13 at 24V vrated value 1 A • at DC-13 at 24V vrated value 1 A • at DC-13 at 24V vrated value 1 A • at DC-13 at 24V vrated value 1 A • at DC-13 at 24V vrated value 1 A • at DC-13 at 24V rated value 10 mm • backwards 0 mm <td>inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs</td> <td> 6.3 A 7.5 A 20 ms Varistor 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 </td>	inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	 6.3 A 7.5 A 20 ms Varistor 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
Invish current peak at application of control supply voltage maximum 7.5 A design of hrush current peak at application of control supply 20 ms design of short-circuit protection for control circuit 4 A gG tuse (cu=1 kA), 6 A quick-acting fuse (cu=1 kA), C1 miniature circuit breaker (cu=300 A); Is not part of scope of supply inputs/ Outputs 4 number of digital outputs 4 • parameterizable 4 • number of digital outputs parameterizable 3 • number of digital outputs parameterizable 3 • number of digital outputs parameterizable 3 • andber of digital outputs 4 • andber of digital outputs 1 • at AC-15 at 250 V rated value 3 A • at AC-15 at 250 V rated value 1 A • at AC-15 at 250 V rated value 3 A • at AC-15 at 250 V rated value 3 A • at BC-13 at 24 V rated value 1 A • forbating method screw fixing	inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	 7.5 A 20 ms Varistor 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
maximum	maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	20 ms Varistor 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
voltage Variation design of the overvoltage protection for control circuit 4 A gG Nase (fcu=1 KA), G A quick-acting fuse (fcu=1 KA), C1 miniature circuit breaker (tcu= 300 A); Is not part of scope of supply inputs/ Outputs 4 number of digital inputs 4 • parameterizable 4 • number of digital outputs parameterizable 4 • number of digital outputs not parameterizable 3 • number of digital outputs not parameterizable 1 digital outputs not parameterizable 3 A • at AC-15 at 250 V rated value 3 A • at AC-15 at 24 V rated value 3 A • at AC-15 at 24 V rated value 1 server Kining Server Kining height 306 mm vidth 68 fb mm design 10 mm required spacing with side-by-side mounting 0 mm • forwards 100 mm • downwards 75 mm • of or main current circuit box terminal • of or main current circuit sont final vidth deformation 27 mm • of analog outputs <	voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	Varistor 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 4 A gG fuse (loc=1 KA), 6 A quick-acting fuse (loc=1 KA), C1 miniature circuit breaker (loc= 300 A); is not part of sever (loc= 600 A); C6 miniature circuit breaker (loc= 300 A); is not part of sever (loc= 600 A); C6 miniature circuit breaker (loc= 300 A); is not part of sever for digital liputs number of digital liputs 4 • parameterizable 4 • number of digital outputs 4 • number of digital outputs parameterizable 3 • number of digital outputs not parameterizable 1 • number of analog outputs 1 • at DC-13 at 2V trated value 3 A • at DC-13 at 2V trated value 1 A number of digital outputs 9 a mortal or sever liping required spacing with side-by-side mounting 9 a mortal of sever liping • at DC-13 at 2V trated value 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting 0 mm • downwards 10 mm • downwards 5 mm • of oracito al circuit </td <td>design of short-circuit protection for control circuit puts/ Outputs number of digital inputs</td> <td>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</td>	design of short-circuit protection for control circuit puts/ Outputs number of digital inputs	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
breaker (fcu= 600 A), C6 miniature circuit breaker (fcu= 300 A); Is not part of scope of supply number of digital inputs 4 • parameterizable 4 • number of digital outputs 4 • number of digital outputs parameterizable 3 • number of digital outputs not parameterizable 1 • number of digital outputs not parameterizable 1 • number of adigital outputs not parameterizable 1 • at C-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A • at DC-13 at 24 V rated value 1 A • at DC-13 at 24 V rated value 3 A • at DC-13 at 24 V rated value 3 C • at DC-13 at 24 V rated value 1 A • at DC-15 at 250 V rated value 3 C • at DC-15 at 250 V rated value 1 A • at DC-15 at 250 V rated value 1 A • at DC-15 at 250 V rated value 1 A • backwards 0 mm • digital output warsis 10 mm • downwards 0 mm • forwards 0 mm • ofowards 0 mm •	puts/ Outputs number of digital inputs	breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
number of digital inputs 4 • parameterizable 4 • number of digital outputs 4 • number of digital outputs parameterizable 3 • number of digital outputs not parameterizable 1 • digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 • at AC-15 at 250 V rated value 3 A • at AC-15 at 24 V rated value 3 A • at AC-15 at 24 V rated value 1 A Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting 0 mm • drowards 0 mm • upwards 10 mm • backwards 0 mm • upwards 15 kg Connections/ Terminals 5 mm weight without packaging 7.1s kg Connections/ Terminals 50 m with conductor cross-section = 0.5 mm ² maximum 50 m with conductor cross-section = 2.5 mm ² maximum 50 m	number of digital inputs	
• parameterizable 4 • number of digital outputs 4 • number of digital outputs parameterizable 3 • number of digital outputs not parameterizable 1 digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 3 A • at DC-13 at 24 V rated value 3 A • at DC-13 at 24 V rated value 306 mm Installation/ mounting of mensions screw fixing fastening method screw fixing height 306 mm width depth • downwards 0 mm • outpards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 7.5 kg Connections/ Terminals ypring-loaded terminals with onductor cross-section = 0.5 mm ² maximum 25 mm		
• number of digital outputs 4 • number of digital outputs parameterizable 3 • number of digital outputs not parameterizable 1 digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 • at AC-15 at 250 V rated value 3 A • at AC-15 at 250 V rated value 1 A Installation/ mounting/ dimensions vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • output side 5 mm • output side 5 mm • forwards 5 mm • of main current circuit 5 mm • for main current circuit 5 mm • for main current circuit spring-loaded terminals with conductor cross-section = 0.5 mm ² maximum 25 m with conductor cross-section = 2.5 mm ² maximum 50 m	parameterizable	4
• number of digital outputs parameterizable3• number of digital outputs not parameterizable1digital output version3 normally-open contacts (NO) / 1 changeover contact (CO)number of analog outputs1switching capacity current of the relay outputs3 A• at AC-15 at 250 V rated value3 A• at DC-13 at 24 V rated value1 AInstallation/ mounting/ dimensionsVertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)fastening methodscrew fixingheight306 mmwidth185 mmdepth203 mm• forwards0 mm• backwards0 mm• upwards100 mm• downwards5 mm• at he side5 mm• diff with up tackaging7.15 kgConnections/ Terminalsbox terminalwidth of connection tariutspring-loaded terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m		4
• number of digital outputs parameterizable3• number of digital outputs not parameterizable1digital output version3 normally-open contacts (NO) / 1 changeover contact (CO)number of analog outputs1switching capacity current of the relay outputs3 A• at AC-15 at 250 V rated value3 A• at DC-13 at 24 V rated value1 AInstallation/ mounting/ dimensionsVertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)fastening methodscrew fixingheight306 mmwidth185 mmdepth203 mm• forwards0 mm• backwards0 mm• upwards100 mm• downwards5 mm• at he side5 mm• diff with up tackaging7.15 kgConnections/ Terminalsbox terminalwidth of connection tariutspring-loaded terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m		
• number of digital outputs not parameterizable 1 digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 switching capacity current of the relay outputs it AC-15 at 250 V rated value • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • downwards 5 mm • at the side 5 mm weight without packaging 7.15 kg Connections/ Terminals 5 pring-loaded terminals with conductor cross-section = 0.5 mm* maximum 50 m • with conductor cross-section = 0.5 mm* maximum 50 m	 number of digital outputs 	4
digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 switching capacity current of the relay outputs i • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width 185 rmm depth 203 rm required spacing with side-by-side mounting • • forwards 0 mm • outmwards 0 0 mm • outmwards 5 mm • at the side 5 mm • at the side 5 mm • at the side 5 mm • for main current circuit box terminal • for main current circuit box terminal • for main current circuit box terminals • for main current circuit box terminals • for main current circuit box terminal • for main current circuit box terminals		3
number of analog outputs 1 switching capacity current of the relay outputs - • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions - mounting position Vertical (can be rotated +/- 90" and tilted forward or backward +/- 22.5") fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting - • forwards 10 mm • backwards 0 mm • downwards 5 mm • downwards 5 mm • at the side 5 mm • for main current circuit box terminal • for ontori circuit spring-loaded terminals • with conductor cross-section = 0.5 mm ^a maximum 50 m • with conductor cross-section = 1.5 mm ^a maximum 50 m	 number of digital outputs not parameterizable 	1
switching capacity current of the relay outputs 3 A • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting 0 mm • backwards 0 mm • backwards 0 mm • backwards 0 mm • backwards 0 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm • for wards 5 mm • at the side 5 mm • at the side 5 mm • at the side 5 mm • for main current circuit box terminal • for control circuit 50 m • for control circuit 50 m • with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum<	digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
• at AC-15 at 250 V rated value3 A• at DC-13 at 24 V rated value1 AInstallation/ mounting/ dimensionsI Amounting positionVertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)fastening methodscrew fixingheight306 mmwidth185 mmdepth203 mmrequired spacing with side-by-side mounting0 mm• forwards10 mm• backwards0 mm• upwards100 mm• downwards55 mm• at the side5 mm• at the side5 mmConnections/ Terminals75 fmveight without packaging7.15 kgConnections/ Terminals50 mwidth of connection bar maximum50 m• with conductor cross-section = 0.5 mm ² maximum50 m• with conductor cross-section = 1.5 mm ² maximum50 m• with conductor cross-section = 2.5 mm ² maximum250 m	number of analog outputs	1
• at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 nm width 185 mm depth 203 mm required spacing with side-by-side mounting - • forwards 0 mm • backwards 0 mm • backwards 0 mm • backwards 0 mm • downwards 5 mm • at the side 5 mm odownwards 5 mm • at the side 5 mm vielght without packaging 7.15 kg Connections / Terminals 20 mm width of connection spring-loaded terminals width of control circuit spring-loaded terminals with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 250 m	switching capacity current of the relay outputs	
Installation/ mounting/ dimensions mounting position Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting 0 mm of rowards 00 mm obackwards 0 mm obackwards 0 mm odownwards 75 mm odownwards 5 mm odownwards 75 mm odownwards 5 mm other side 5 mm weight without packaging 7.15 kg Connections/ Terminals 50 m with of connection 50 m with conductor cross-section = 0.5 mm ² maximum 50 m with conductor cross-section = 1.5 mm ² maximum 50 m with conductor cross-section = 2.5 mm ² maximum 50 m		
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fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting 10 mm • forwards 0 mm • backwards 0 mm • backwards 0 mm • downwards 75 mm • downwards 5 mm • at the side 5 mm weight without packaging 7.15 kg Connections/ Terminals box terminal • for control circuit spring-loaded terminals with of connection bar maximum 25 mm with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m	stallation/ mounting/ dimensions	
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required spacing with side-by-side mounting forwards 10 mm backwards 0 mm upwards 100 mm downwards 75 mm e downwards 5 mm weight without packaging 7.15 kg Connections/ Terminals 50 x terminal vipe of electrical connection box terminal e for control circuit spring-loaded terminals width of connection bar maximum 25 mm with conductor cross-section = 0.5 mm² maximum 50 m with conductor cross-section = 1.5 mm² maximum 50 m with conductor cross-section = 2.5 mm² maximum 50 m		
forwards10 mmbackwards0 mmupwards100 mmdownwards75 mma the side5 mmweight without packaging7.15 kgConnections/ Terminalstype of electrical connectionof or main current circuitbox terminalof or control circuitspring-loaded terminalswidth of connection bar maximum25 mmwith conductor cross-section = 0.5 mm² maximum50 mwith conductor cross-section = 1.5 mm² maximum50 mwith conductor cross-section = 2.5 mm² maximum250 m	•	203 mm
• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging7.15 kgConnections/ Terminals50 mmtype of electrical connectionbox terminal• for main current circuitbox terminal• for control circuitspring-loaded terminalswidth of connection bar maximum25 mm• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m		
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weight without packaging 7.15 kg Connections/ Terminals 50 kg type of electrical connection box terminal • for main current circuit box terminal • for control circuit box terminal • for control circuit spring-loaded terminals width of connection bar maximum 25 mm wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m		
Connections/ Terminals type of electrical connection box terminal • for main current circuit box terminal • for control circuit spring-loaded terminals width of connection bar maximum 25 mm wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m		
type of electrical connectionbox terminal• for main current circuitbox terminal• for control circuitspring-loaded terminalswidth of connection bar maximum25 mmwire length for thermistor connection• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m		7.10 ку
• for main current circuitbox terminal• for control circuitspring-loaded terminalswidth of connection bar maximum25 mmwire length for thermistor connection		
• for control circuitspring-loaded terminalswidth of connection bar maximum25 mmwire length for thermistor connection		how terminal
width of connection bar maximum 25 mm wire length for thermistor connection		
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• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m		20 11111
• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m	-	50 m
• with conductor cross-section = 2.5 mm ² maximum 250 m		
contacts for box terminal	type of connectable conductor cross-sections for main	200 m
• using the front clamping point solid 1x (2.5 16 mm ²)		1x (2.5 16 mm²)
using the front clamping point finely stranded with core 1x (2.5 50 mm ²) end processing	using the front clamping point finely stranded with core	
• using the front clamping point stranded 1x (10 70 mm ²)		1x (10 70 mm²)
• using the back clamping point solid 1x (2.5 16 mm ²)		
	 r box terminal using the back clamping point 	1x (2.5 16 mm ²)

• using both clamping points solid $2x (2.5 \dots 16 \text{ mm}^2)$ • using both clamping points finely stranded with core end processing $2x (2.5 \dots 35 \text{ mm}^2)$ • using both clamping points stranded $2x (6 \dots 16 \text{ mm}^2), 2x (10 \dots 50 \text{ mm}^2)$ • using the back clamping point finely stranded with core end processing $1x (2.5 \dots 50 \text{ mm}^2)$ • using the back clamping point stranded $1x (10 \dots 70 \text{ mm}^2)$ • using the back clamping point stranded $1x (10 \dots 70 \text{ mm}^2)$ • using the back clamping point stranded $2x (0.25 \dots 1.5 \text{ mm}^2)$ • for control circuit solid $2x (0.25 \dots 1.5 \text{ mm}^2)$ • for control circuit finely stranded with core end processing $2x (24 \dots 16)$ • for AWG cables for control circuit solid $2x (24 \dots 16)$ • for AWG cables for control circuit finely stranded with core end processing $2x (24 \dots 16)$ • wire length 800 m • between soft starter and motor maximum 800 m • at the digital inputs at DC maximum 1000 m • tightening torque $4.5 \dots 6 \text{ N·m}$ • for main contacts with screw-type terminals $4.5 \dots 6 \text{ N·m}$ • for auxiliary and control contacts with screw-type $0.8 \dots 1.2 \text{ N·m}$	
processing• using both clamping points stranded2x (6 16 mm²), 2x (10 50 mm²)• using the back clamping point finely stranded with core end processing1x (2.5 50 mm²)• using the back clamping point stranded1x (10 70 mm²)type of connectable conductor cross-sections • for control circuit solid2x (0.25 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)wire length • between soft starter and motor maximum800 m• at the digital inputs at DC maximum1 000 m• for main contacts with screw-type terminals4.5 6 N·m• for auxiliary and control contacts with screw-type0.8 1.2 N·m	
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 for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit finely stranded with core end processing for 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 auxiliary and control contacts with screw-type 	
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• for AWG cables for control circuit finely stranded with core end processing 2x (24 16) wire length • • between soft starter and motor maximum 800 m • at the digital inputs at DC maximum 1 000 m tightening torque 1 000 m • for main contacts with screw-type terminals 4.5 6 N·m • for auxiliary and control contacts with screw-type 0.8 1.2 N·m	
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between soft starter and motor maximum at the digital inputs at DC maximum 1000 m tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type 0.8 1.2 N·m	
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 0.8 1.2 N·m	
tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type 0.8 1.2 N·m	
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type 0.8 1.2 N·m 	
• for auxiliary and control contacts with screw-type 0.8 1.2 N·m	
5	
tightening torque [lbf·in]	
for main contacts with screw-type terminals 40 53 lbf-in	
for auxiliary and control contacts with screw-type 7 10.3 lbf-in	
terminals	
Ambient conditions	
installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog	
ambient temperature	
• during operation -25 +60 °C; Please observe derating at temperatures of 40 °C of	r above
during storage and transport -40 +80 °C	
environmental category	
 during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt (sand must not get into the devices), 3M6 	mist), 3S2
 during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand inside the devices), 1M4 	must not get
during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
Environmental footprint	
Siemens Eco Profile (SEP) Siemens EcoTech	
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	
Moduus TCP Yes	
PROFIBUS Yes	
UL/CSA ratings	
manufacturer's article number	
of circuit breaker usable for Standard Faults at 460/490 V constraints to U	
- at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq = 10 kA	
- 60/480 V according to UL Siemens type: 3VA51, max. 125 A; lq max = 65 kA	
- at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 125 A; lq = 10 kA	
- 60/480 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 125 A; lq max = 65 kA	
- at 575/600 V according to UL Siemens type: 3VA51, max. 125 A; lq = 10 kA	
— 75/600 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	
— at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 125 A; Iq = 10 kA	
of the fuse	
— usable for Standard Faults up to 575/600 V according to UL Type: Class RK5 / K5, max. 300 A; Iq = 10 kA	
— usable for High Faults up to 575/600 V according to Type: Class J / L, max. 250 A; Iq = 100 kA UL	
— usable for Standard Faults at inside-delta circuit up Type: Class RK5 / K5, max. 300 A; Iq = 10 kA to 575/600 V according to UL	

 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 250 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	25 hp
• at 220/230 V at 50 °C rated value	30 hp
• at 460/480 V at 50 °C rated value	60 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	40 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	50 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	100 hp
contact rating of auxiliary contacts according to UL	R300-B300
Electrical Safety	
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
ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-7 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
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 2014/34/EU	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]
Approvals Certificates	

General Product Approval



Information on the packaging <u>https://support.industry.siemens.com/cs/ww/en/view/109813875</u> 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=3RW5527-3HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5527-3HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-3HA04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5527-3HA04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

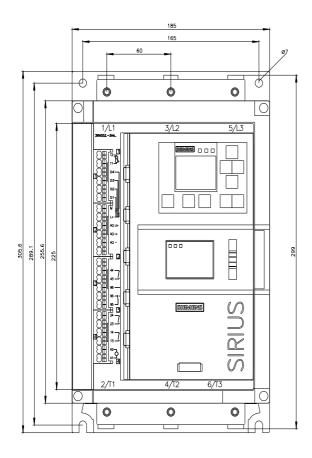
https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-3HA04/char

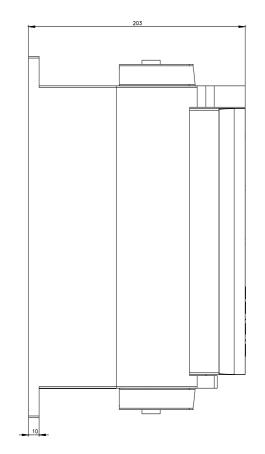
Characteristic: Installation altitude

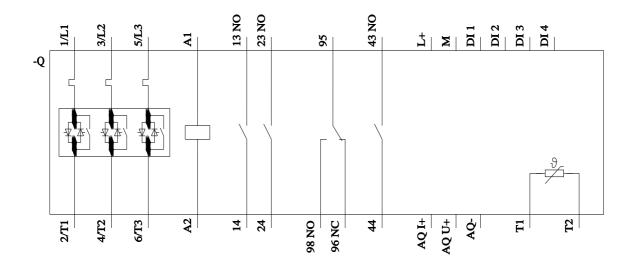
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5527-3HA04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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