## SIEMENS

## Data sheet

## 3RW5543-2HA14



SIRIUS soft starter 200-480 V 210 A, 110-250 V AC spring-type terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; 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>	<u>3NE1230-2; for supply systems up to 500 V; type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3333; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s

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	No.
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	
<ul> <li>for main current circuit</li> </ul>	100 ms
<ul> <li>for control circuit</li> </ul>	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) SVHC substance name	02/15/2018 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 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
<ul> <li>breakaway pulse</li> </ul>	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
DC braking	
	Yes
<ul> <li>motor heating</li> </ul>	Yes
<ul><li>motor heating</li><li>slave pointer function</li></ul>	
-	Yes
slave pointer function	Yes Yes
<ul><li>slave pointer function</li><li>trace function</li></ul>	Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> </ul>	Yes Yes Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> </ul>	Yes Yes Yes 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>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> </ul>	Yes Yes Yes Yes Yes Source of the second sec
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes Yes Yes Yes Yes Yes

<ul> <li>removable terminal for control circuit</li> </ul>	Yes
	Yes
<ul> <li>voltage ramp</li> <li>torque control</li> </ul>	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	Yes
automatic parameterisation	Yes
-	Yes
<ul> <li>application wizards</li> <li>alternative run-down</li> </ul>	Yes
	Yes
emergency operation mode	Yes
reversing operation	
soft starting at heavy starting conditions	Yes
Power Electronics operational current	
at 40 °C rated value	210 A
at 40 °C rated value minimum	42 A
at 40 °C rated value     at 50 °C rated value	42 A 186 A
• at 50 °C rated value	100 A
operational current at inside-delta circuit • at 40 °C rated value	364 A
at 40 °C rated value     at 50 °C rated value	304 A 322 A
	322 A 294 A
operating voltage	
rated value	200 480 V
	200 480 V
at inside-delta circuit rated value relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	-13 /0
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	55 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	110 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	110 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	200 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	63 W
● at 50 °C after startup	56 W
● at 60 °C after startup	51 W
power loss [W] at AC at current limitation 350 %	
● at 40 °C during startup	3 550 W
● at 50 °C during startup	2 967 W
● at 60 °C during startup	2 605 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
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %

relative positive fortance of the control supply voltage at Control supply voltage frequency         50 - 60 Hz           control supply voltage frequency         50 - 60 Hz           relative negative fortance of the control supply voltage         10 %           relative negative fortance of the control supply voltage         10 %           relative negative fortance of the control supply voltage         10 %           control supply current in standary mode rated value         50 m Å           bolding current forta damaby mode rated value         50 m Å           control supply current in standary mode rated value         50 m Å           design of the overolage protection         Varistor           design of abort-circuit protection for control circuit         4 Å           number of digital inputs         4           eurother of digital inputs         4           eurother of digital outputs         4           eurother of digital outputs         4           eurother of digital outputs         5           eurother of digital outputs         5           eurother of digital outputs         1           eurother of digital outputs         4           eurother of digital outputs         5           eurother of digital outputs         5           eurother of digital outputs         1 <th></th> <th></th>		
relative tolerance of the control supply voltage frequency.         -10 %           relative positive tolerance of the control supply voltage frequency.         10 %           control supply current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           holding current in standardy mode rated value         100 n/n           design of the overvoltage protection         Varistor           design of the overvoltage protection         Varistor           number of digital inputs         4           • number of digital outputs         4           • number of digital outputs         1           • number of digital outputs <th>relative positive tolerance of the control supply voltage at AC at 60 Hz</th> <th>10 %</th>	relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
requery	control supply voltage frequency	50 60 Hz
frequency         00 mA           control supply current in targonas operation rated value         100 mA           invalue         50 mA           much current to by base operation rated value         50 mA           much current posk at application of control supply voltage         43 A           much current posk at application of control supply voltage         10 ms           design of the overroltage protection         Variation           design of the overroltage protection         Variation           mumber of digital inputs         4           - number of digital inputs         4           - quarteristizable         4           - unmber of digital inputs         4           - quarteristizable         3           - number of digital outputs parameterizable         3           - number of digital outputs parameterizable         1           - surder of digital outputs parameterizable         3           - number of digital outputs parameterizable         3           - atol 20 tarder duale         3 A           - atol 20 tarder duale         3		-10 %
Indefining current in bypass operation rated value         150 m/k           Innuk current by closing the bypass ochicles maximum         0.57 A           Innuk current by closing the bypass ochicles maximum         0.57 A           Innuk current by closing the bypass ochicles maximum         0.57 A           Innuk current bypass de application of control supply value         43 A           Gesign of the overvoltage protection         Variator           design of short-circuit protection for control circuit         4 A gG bing from from from from from from from from		10 %
Image         087 A           Image         087 A           Image         087 A           Image         083 A           Image <th>control supply current in standby mode rated value</th> <th>100 mA</th>	control supply current in standby mode rated value	100 mA
much current peak at application of control supply voltage maxmum         43 Å           duration of invush current peak at application of control supply voltage         1.6 ms           design of the overvoltage protection         Varistor           design of short-circuit protection for control circuit breaker (cur 600 Å). C6 miniature circuit breaker (cur 500 Å); c miniature circuit breaker (cur 500 Å); c miniature circuit breaker (cur 600 Å). C6 miniature circuit breaker (cur 500 Å); is not part of stransfer for figital outputs and and the circuit breaker (cur 500 Å). C6 miniature circuit breaker (cur 500 Å); is not part of stransfer for figital outputs of anometerizable           number of digital outputs parameterizable         4           number of digital outputs parameterizable         3           number of digital outputs parameterizable         3           eutore for an add value         3 A           eutore for an add value         3 A           et al C-15 at 250 V rated value         1 A           featallatour mounting/ dimensions         400 mm           mounting open outputs         10 mm           etable         203 mm           required spacing with side-by-side mounting         203 mm           etable         5 mm           etable         6 mm           velopit without packaging         10 mm           i at basis         5 mm           velopit without packaging<	holding current in bypass operation rated value	150 mA
maximum         1.0 mm           votage         4.0 mm           design of the overvoltage protection         Variator           design of short-circuit protection for control oricuit         4.4 gG fuse (roue 1 kA) 6.4 quick-ading fuse (roue 1 kA), C1 ministure circuit breaker (roue 300 A); Is not part of some of supply           fightal Origital Inputs         4           • number of digital outputs         4           • number of digital outputs         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         3           • attaballot of the roley outputs         1           • attaballot of the roley outputs         1           • attaballot of the roley outputs         3           • attaballot of the roley outputs         3           • attaballot of monting one contacts (NO) / 1 changeover contact (CO)           number of attage outputs         3           • attaballot of monting of the roley outputs         3           • attaballot of monting one contacts (NO) / 1 changeover contact (CO)           reserve fining method         3A           • attaballot of monting of the roley outputs         3A           • attaballot of montacts attaff role outputs         3A	inrush current by closing the bypass contacts maximum	0.87 A
voltage         voltage           design of the verotage protection         Varitor           design of short-circuit protection for centrol circuit         *A QS base (locu = KA), S A quick acting fuse (locu = KA), C ministure circuit breaker (locu = 300 A), Is not part of algebraic direction of the state of the stat		43 A
design of short-circuit protection for control circuit     4 Ag G (see (lour 1AA) 6 A quick-exting fuse (lour 1AA) 6 A quick-exting fuse (lour 1AA) 6 A quick-exting fuse (lour 300 A); is not part of toppe of supply       Imputs/ Outputs     4       number of digital inputs     4       • parameterizable     4       • number of digital outputs parameterizable     4       • number of digital outputs parameterizable     3       • number of digital outputs on parameterizable     1       • ad OC-13 at 24 V rated value     3 A       • at OC-13 at 24 V rated value     1 A       • ad OC-13 at 24 V rated value     1 A       • required specing with side-by-side mounting     93 mm       • offer and the outputs     3 A       • ad OC-13 at 24 V rated value     1 A       • ad OC-13 at 24 V rated value     1 A       • required specing with side-by-side mounting     93 mm       • offer and the outputs     1 A       • forwards     0 mm       • offer and current front     20 mm       • oparatis     75 mm       • off main current front     50 mm       • oparatis     75 mm       • off main current front     50 m		1.6 ms
Imputed Outputs         Unputs Outputs           Imput of digital inputs         4           • parameterizable         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         3           • number of digital outputs not parameterizable         3           • ath AC-15 at 26V trade value         3.           • ath AC-15 at 26V trade value         3.           • ath AC-15 at 24V trade value         3.           • ath CC-13 at 24V trade value         3.	design of the overvoltage protection	Varistor
number of digital inputs     4       • parameterizable     4       • number of digital outputs     4       • number of digital outputs not parameterizable     3       • number of digital outputs not parameterizable     1       • at DC-15 at 250 V rated value     3.       • at DC-15 at 250 V rated value     3.A       • at DC-15 at 250 V rated value     1.A       Installator/ nounting/ dimensions     1.A       Installator/ nounting/ dimensions     Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)       fastening method     screw fixing       tight     393 mn       width     210 mm       • dopth     203 mm       required spacing with side-by-side mounting     10 mm       • forwards     10 mm       • backwards     00 mm       • downwards     75 mm       • at the side     5 mm       wolght without packaging     10.2 kg       Connections/ Terminatis     50 m       type of disctrical connection     45 mm       • with conductor cross-sections = 1.5 mm <sup>2</sup> maximum     250 m       • for ontiol circuit     50 m       • with conductor cross-sections = 1.5 mm <sup>2</sup> maximum     250 m       • for control circuit finely stranded     2x (02, 1.5 mm <sup>2</sup> )       • for control circuit solid <t< th=""><th>design of short-circuit protection for control circuit</th><th>breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of</th></t<>	design of short-circuit protection for control circuit	breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of
• parameterizable         4           • number of digital outputs         4           • number of digital outputs parameterizable         3           • number of adigital outputs parameterizable         3           • number of adigital outputs         3           • number of analog outputs         3           • att AC-15 at 25 V rated value         3 A           • att AC-15 at 25 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att AC-15 at 24 V rated value         3 A           • att DC-15 at 24 V rated value         3 A           • att DC-15 at 24 V rated value         3 A           • att DC-15 at 24 V rated value         3 A           • att DC-15 at 24 V rated value         20 mm           • att DC-15 at 24 V rated value         20 mm           • forwards         0 mm           • att	Inputs/ Outputs	
	number of digital inputs	4
• number of digital outputs parameterizable       1         • number of digital outputs not parameterizable       1         fightal output version       3 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       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       Sorew fixing         height       393 nm         width       210 nm         depth       203 mm         required spacing with side-by-side mounting       0 mm         • backwards       0 mm         • downwards       75 mm         • at the side       5 mm         • for main current circuit       busbar connection         • for main current circuit       busbar connection         • for ontal current store       50 m         • with conductor cross-section = 0.5 mm* maximum       50 m         • with conductor cross-section = 1.5 mm* maximum       50 m         • with conductor cross-section = 0.5 mm* maximum       50 m         • with conductor cross-section = 0.5 mm* max	parameterizable	4
• number of digital outputs parameterizable       1         • number of digital outputs not parameterizable       1         fightal output version       3 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       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       Sorew fixing         height       393 nm         width       210 nm         depth       203 mm         required spacing with side-by-side mounting       0 mm         • backwards       0 mm         • downwards       75 mm         • at the side       5 mm         • for main current circuit       busbar connection         • for main current circuit       busbar connection         • for ontal current store       50 m         • with conductor cross-section = 0.5 mm* maximum       50 m         • with conductor cross-section = 1.5 mm* maximum       50 m         • with conductor cross-section = 0.5 mm* maximum       50 m         • with conductor cross-section = 0.5 mm* max		
• number of digital outputs parameterizable       1         • number of digital outputs not parameterizable       1         fightal output version       3 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       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       Sorew fixing         height       393 nm         width       210 nm         depth       203 mm         required spacing with side-by-side mounting       0 mm         • backwards       0 mm         • downwards       75 mm         • at the side       5 mm         • for main current circuit       busbar connection         • for main current circuit       busbar connection         • for ontal current store       50 m         • with conductor cross-section = 0.5 mm* maximum       50 m         • with conductor cross-section = 1.5 mm* maximum       50 m         • with conductor cross-section = 0.5 mm* maximum       50 m         • with conductor cross-section = 0.5 mm* max	<ul> <li>number of digital outputs</li> </ul>	4
• 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         3 A           • at AC-15 at 250 V rated value         3 A           • at DC-15 at 250 V rated value         1 A           Installation/ mounting/ dimensions         Vertical (can be rotated +/- 80° and tilted forward or backward +/- 22.5°)           fastening method         server fixing           height         393 mm           vidth         210 mm           depth         203 mm           required spacing with side-by-side mounting         0 mm           • forwards         0 mm           • downwards         5 mm           • at the side         5 mm           Very of decrifical connection         5 mm           • for main current circuit         bubbar connection           • for control circuit         50 m           • with conductor cross-section = 0.5 mm* maximum         50 m           • with conductor cross-section = 0.5 mm* maximum         50 m           • with conductor cross-section = 0.5 mm* maximum         50 m           • with conductor cross-section = 0.5 mm* maximum         50 m		
digital output version       3 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       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         mounting position       Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)         fasteling method       screw fixing         height       203 mm         victh       210 mm         depth       203 mm         required spacing with side-by-side mounting       •         • forwards       0 mm         • upwards       00 mm         • upwards       00 mm         • downwards       75 mm         • at the side       5 mm         weight without packaging       102 kg         Connection I reminals       50 m         vift control circuit       spring-loaded terminals         with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-sections       2x (70		
number of analog outputs     1       switching capacity current of the relay outputs     3 A       • at QC-15 at 24V rated value     3 A       • at DC-13 at 24V rated value     1 A       Installation mounting/dimensions     1 A       mounting position     server fixing       fastening method     server fixing       height     393 mm       width     210 mm       depth     203 mm       required spacing with side-by-side mounting     10 mm       • torvards     10 mm       • backwards     0 mm       • upwards     100 mm       • downwards     75 mm       • at the side     5 mm       weight without packaging     10.2 kg       Connections/ Terminals     100 mm       with conductor cross-section = 0.5 mm² maximum     45 mm       with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 0.5 mm² maximum     250 m       • with conductor cross-section = 0.5 mm² maximum     20 m       • with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 0.5 mm² maximum     20 m       • for DIN cable lug for main contacts stranded     2x (70240 mm²)       • for DIN cable lug for main con		
switching capacity current of the relay outputs     3 A       • at AC-15 at 250 V rated value     3 A       • at DC-15 at 250 V rated value     1 A       Installation/ mounting/ dimensions     1 A       mounting position     Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)       fastening method     screw fixing       height     393 mm       width     210 mm       depth     203 mm       • forwards     0 mm       • backwards     0 mm       • upwards     100 mm       • downwards     75 mm       • at the side     5 mm       weight without packaging     10.2 kg       Connections/ Terminals     50 m       vite length     50 m       with conductor cross-section = 0.5 mm² maximum     50 m       with conductor cross-sections     2x (70 240 mm²)       • for runia contact sting is yanded     2x (70 240 mm²)       for control circuit at single yanded     2x (70 240 mm²)       • with conductor cross-sections     2x (70 240 mm²)       • for or Namic contacts stranded     2x (20 240 mm²)       • for or Namic contacts stranded     2x (20 240 mm²)       • for DIN cable lug for main contacts finely stranded     2x (70 240 mm²)       • for control circuit solid     2x (70 240 mm²)		
• 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 titled forward or backward +/- 22.5°)         fastening method       screw fixing         height       393 nm         width       210 nm         depth       203 nm         required spacing with side-by-side mounting         • forwards       0 mm         • adowards       0 mm         • downwards       10 nm         • downwards       75 mm         • at the side       5 mm         weight without packaging       10.2 kg         Connections/ Torminals       type of electrical connection         • for main current circuit       spring-loaded terminals         width of connection bar maximum       50 m         • with conductor cross-section = 0.5 mm* maximum       50 m         • with conductor cross-section = 1.5 mm* maximum       50 m         • for DIN cable lug for main contacts finanded       2x (50 240 mm*)         • for control circuit finely stranded       2x (02 1.5 mm*)         • for control circuit finely stranded with core end processing       2x (02 1.5 mm*)         • for onthor cable lug for mai		
• at DC-13 at 24 V rated value       1 A         Installator/ mounting position       Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)         fastening method       screw fixing         height       393 mm         width       210 mm         depth       203 mm         • forwards       00 mm         • backwards       01 mm         • backwards       00 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         weight without packaging       10.2 kg         Connections/ Terminals       ypwards         with connection encition       yping-loaded terminals         with conductor cross-section = 0.5 mm <sup>2</sup> maximum       45 mm         with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         with conductor cross-section = 2.5 mm <sup>3</sup> maximum       50 m         with conductor cross-sections       2x (x0 240 mm <sup>3</sup> )         • for DIN cable lug for main contacts stranded       2x (x0 240 mm <sup>3</sup> )         • for Control circuit finely stranded with core end processing       2x (0.25 1.5 mm <sup>3</sup> )         • for DIN cable lug for main contacts linely stranded with core end processing <th></th> <th>3 A</th>		3 A
Installation/ mounting/ dimensions         Vertical (can be rotated +/- 90" and tilted forward or backward +/- 22.5")           fastening method         screw fixing           height         393 mm           width         210 mm           depth         203 mm           required spacing with side-by-side mounting         0 mm           • backwards         0 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           • at the side         5 mm           • of ornanic ourent circuit         bushar connection           • for control circuit         spring-loaded terminals           with conductor cross-section = 0.5 mm <sup>*</sup> maximum         45 mm           • with conductor cross-section = 0.5 mm <sup>*</sup> maximum         50 m           • with conductor cross-section = 1.5 mm <sup>*</sup> maximum         250 m           • for DIN cable lug for main contacts finely stranded         2x (70 240 mm <sup>*</sup> )           • for control circuit solid         2x (0.25 1.5 mm <sup>*</sup> )           • for CNT cloic line linely for main contacts finely stranded         2x (70 240 mm <sup>*</sup> )           • for CNT cloic line linely for main contacts finely stranded with core end processing         2x (0.25 1.5 mm <sup>*</sup> )		
mounting position         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fastening method         screw fixing           height         393 mm           width         210 mm           depth         203 mm           required spacing with side-by-side mounting         0 mm           • backwards         0 mm           • upwards         0 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         10.2 kg           Connections/ Terminals         50 m           type of electrical connection         6 for main current circuit           • for control circuit         spring-loaded terminals           witch conductor cross-section = 0.5 mm² maximum         50 m           • with conductor cross-section = 2.5 mm² maximum         50 m           • with conductor cross-section = 2.5 mm² maximum         50 m           • for DIN cable lug for main contacts stranded         2x (0.25 1.5 mm²)           • for control circuit solid         2x (0.25 1.5 mm²)           • for control circuit solid         2x (0.25 1.5 mm²)           • for DIN cable lug for main contacts finely stranded with core end processing         2x (0.25 1.5 mm²)           • for control circuit linely stran		
fastening method       screw fixing         height       393 mm         width       210 mm         depth       203 mm         required spacing with side-by-side mounting       0 mm         • forwards       0 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         weight without packaging       10.2 kg         Connections/Terminals       50 m         type of electrical connection       • for main current circuit         • for main current circuit       busbar connection         • for control circuit       spring-loaded terminals         width of connection bar maximum       45 mm         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-sections       50 m         • for DIN cable lug for main contacts stranded       2x (20 240 mm²)         • for control circuit solid       2x (02 5 15 mm²)         • for control circuit solid       2x (02 5 15 mm²)         • for control circuit solid       2x (24 16)         • for AWG cables for control circuit solid       2x (24 16)		Vartical (can be retated 1/ 00° and tilted featured or backward 1/ 22.5°)
height     393 nm       width     210 nm       depth     203 nm       required spacing with side-by-side mounting     0 nm       • forwards     0 nm       • backwards     0 nm       • upwards     100 nm       • downwards     75 mm       • at the side     5 mm       weight without packaging     10.2 kg       Connections/Terminals     50 m       type of electrical connection     • for main current circuit       • for main current circuit     busbar connection       • for control circuit     spring-loaded terminals       with conductor cross-section = 0.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 1.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 2.5 mm <sup>2</sup> maximum     250 m       • with conductor cross-sections     2x (50 240 mm <sup>2</sup> )       • for DIN cable lug for main contacts stranded     2x (70 240 mm <sup>2</sup> )       • for control circuit solid     2x (0.25 1.5 mm <sup>2</sup> )       • for control circuit solid     2x (24 16)       • for AWG cables for control circuit fiely stranded with core end processing     2x (24 16)       • for AWG cables for control circuit fiely stranded with core end processing     2x (24 16)		
width     210 mm       depth     203 mm       required spacing with side-by-side mounting     0 mm       • forwards     10 mm       • backwards     0 mm       • upwards     100 mm       • downwards     75 mm       • at the side     5 mm       weight without packaging     10.2 kg       Connections/Terminals     5 mm       type of electrical connection     6 mm       • for nain current circuit     busbar connection       • for control circuit     spring-loaded terminals       width of connection bar maximum     45 mm       with conductor cross-section = 0.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 1.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 2.5 mm <sup>2</sup> maximum     50 m       • for DIN cable lug for main contacts stranded     2x (50 240 mm <sup>2</sup> )       • for control circuit solid     2x (50 240 mm <sup>2</sup> )       • for control circuit solid     2x (0.25 1.5 mm <sup>2</sup> )       • for control circuit solid     2x (24 16)       • for AWG cables for control circuit finely stranded with core end processing     2x (24 16)       • for AWG cables for control circuit finely stranded with core end processing     2x (24 16)		
depth203 mmrequired spacing with side-by-side mounting10 mm• forwards0 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mm <b>Connections/Terminals</b> type of electrical connection• for main current circuitbusbar connection• for main current circuitspring-loaded terminalswidth of connection bar maximum45 mmwith conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (0.25 120 mm²)• for control circuit solid2x (0.25 15 mm²)• for control circuit solid2x (0.25 15 mm²)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)<		
required spacing with side-by-side mounting     10 mm       • forwards     10 mm       • backwards     0 mm       • upwards     100 mm       • downwards     75 mm       • at the side     5 mm       • at the side     5 mm       • of control circuit     busbar connection       • for control circuit     busbar connection       • for control circuit     busbar connection       • for control circuit     busbar connection       • with conductor cross-section = 0.5 mm <sup>3</sup> maximum     50 m       • with conductor cross-section = 1.5 mm <sup>3</sup> maximum     50 m       • with conductor cross-sections     2x (50 240 mm <sup>3</sup> )       • for control circuit solid     2x (50 240 mm <sup>3</sup> )       • for control circuit finely stranded     2x (70 240 mm <sup>3</sup> )       • for control circuit finely stranded     2x (0.25 1.5 mm <sup>3</sup> )       • for control circuit finely stranded with core end processing     2x (0.25 1.5 mm <sup>3</sup> )       • for control circuit finely stranded with core end processing     2x (24 16)       • for AWG cables for control circuit finely stranded with core end processing     2x (24 16)       • for AWG cables for control circuit finely stranded with core end processing     2x (24 16)		
• forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging10.2 kgConnections/Terminalstype of electrical connection• for main current circuitbusbar connection• for control circuitspring-loaded terminalswildth of connection bar maximum45 mmwith conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for control circuit finely stranded2x (0.25 1.5 mm³)• for control circuit solid2x (0.25 1.5 mm³)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)		203 mm
• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mmweight without packaging0.2 kgConnections/ TerminalsVype of electrical connection• for main current circuitbusbar connection• for control circuitspring-loaded terminalswidth of connection bar maximum50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-sections250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for control circuit solid2x (50 240 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit solid2x (24 16)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit stranded with core end processing2x (24 16)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit finel		40
• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging10.2 kgConnections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for control circuitspring-loaded terminalswidth of connection bar maximum45 mm• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (0 240 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 solid2x (24 16)• for AWG cables for control circuit finely stranded with core end processingxx (24 16)		
• downwards     75 mm       • at the side     5 mm       • at the side     5 mm       weight without packaging     10.2 kg       Connections/ Terminals     •       type of electrical connection     •       • for main current circuit     busbar connection       • for control circuit     spring-loaded terminals       width of connection bar maximum     45 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       • with conductor cross-section = 2.5 mm² maximum     50 m       • with conductor cross-sections		
• at the side5 mmweight without packaging10.2 kgConnections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for control circuitspring-loaded terminalswidth of connection bar maximum45 mmwite length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum250 mtype of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (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 finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• wire length2x (24 16)		
weight without packaging10.2 kgConnections/Terminalstype of electrical connection • for main current circuit • for control circuitbusbar connection spring-loaded terminalswidth of connection bar maximum45 mmwire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 1.5 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 control circuit solid • for control circuit solid • for control circuit solid • 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 processing2x (24 16) 2x (24 16)wire lengthwire length		
Connections/Terminals         type of electrical connection         • for main current circuit       busbar connection         • for control circuit       spring-loaded terminals         width of connection bar maximum       45 mm         wire length for thermistor connection          • 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         type of connectable conductor cross-sections          • for DIN cable lug for main contacts stranded       2x (50 240 mm²)         • for DIN cable lug for main contacts finely stranded       2x (0.25 1.5 mm²)         • for control circuit solid       2x (0.25 1.5 mm²)         • for control circuit solid       2x (24 16)         • for AWG cables for control circuit finely stranded with core end processing       2x (24 16)         wire length       wire length		
type of electrical connection• for main current circuit• for control circuitwidth of connection bar maximum45 mmwire length for thermistor connection• with conductor cross-section = 0.5 mm² maximum• with conductor cross-section = 1.5 mm² maximum• with conductor cross-section = 1.5 mm² maximum• with conductor cross-section = 2.5 mm² maximum• with conductor cross-section = 2.5 mm² maximum• with conductor cross-section = 2.5 mm² maximum• for DIN cable lug for main contacts stranded• for DIN cable lug for main contacts finely stranded• for control circuit solid• for control circuit solid• 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 processingwire length		10.2 kg
<ul> <li>for main current circuit</li> <li>busbar connection</li> <li>for control circuit</li> <li>spring-loaded terminals</li> <li>width of connection bar maximum</li> <li>45 mm</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>2x (70 240 mm<sup>2</sup>)</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>wire length</li> </ul>		
• for control circuitspring-loaded terminalswidth of connection bar maximum45 mmwire length for thermistor connection50 m• 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• with conductor cross-sections250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for connectable conductor cross-sections2x (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 finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)wire length		
width of connection bar maximum45 mmwire length for thermistor connection50 m• 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• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for DIN cable lug for main contacts finely stranded2x (0.25 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)wire length2x (24 16)		
wire length for thermistor connection50 m• 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 mtype of connectable conductor cross-sections50 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• 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 (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)wire length2x (24 16)		
• 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 mtype of connectable conductor cross-sections250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• 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 finely stranded with core end processing2x (24 16)wire lengthImage: stranded		45 mm
• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections• 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)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)	-	
• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections• 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		
type of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections2x (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)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)	<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
<ul> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>2x (70 240 mm<sup>2</sup>)</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>wire length</li> </ul>	• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections2x (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)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)	type of connectable conductor cross-sections	
type of connectable conductor cross-sections2x (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 length2x (24 16)	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>wire length</li> </ul>	<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	2x (70 240 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>wire length</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (24 16)</li> <li>2x (24 16)</li> </ul>	type of connectable conductor cross-sections	
for AWG cables for control circuit solid 2x (24 16)     for AWG cables for control circuit finely stranded with core end processing  wire length	<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
for AWG cables for control circuit finely stranded with core end processing      wire length	<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
core end processing wire length	<ul> <li>for AWG cables for control circuit solid</li> </ul>	2x (24 16)
-		2x (24 16)
between soft starter and motor maximum     800 m	wire length	
	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m

<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m			
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m			
terminals				
tightening torque [lbf·in]				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in			
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in			
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog			
ambient temperature	5 000 m, Derating as or 1000 m, see catalog			
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above			
during storage and transport	-40 +80 °C			
environmental category				
• during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2			
	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get			
<ul> <li>during transport according to IEC 60721</li> </ul>	inside the devices), 1M4 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			
Modbus TCP	Yes			
PROFIBUS	Yes			
UL/CSA ratings				
manufacturer's article number				
<ul> <li>of circuit breaker usable for Standard Faults</li> </ul>				
— at 460/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA			
— 60/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA			
- at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA			
<ul> <li>— 60/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA			
<ul> <li>— 60/480 V at inside-delta circuit according to UL</li> <li>— at 575/600 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA			
5				
— at 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA			
— at 575/600 V according to UL — 75/600 V at inside-delta circuit according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA			
<ul> <li>— at 575/600 V according to UL</li> <li>— 75/600 V at inside-delta circuit according to UL</li> <li>— at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>at 200/208 V at 50 °C rated value</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA 60 hp			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for J according to UL</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA 60 hp			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA 60 hp 60 hp 150 hp			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at 50 °C rated value</li> <li>as 220/208 V at 50 °C rated value</li> <li>as 220/208 V at inside-delta circuit at 50 °C rated value</li> <li>as 220/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 100 kA Roo hp So hp So hp R300-B300			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA G0 hp 60 hp 150 hp 100 hp 125 hp 250 hp R300-B300			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 100 kA Roo hp So hp So hp R300-B300			
<ul> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 100 kA Type: Class J / L, max. 700 A; lq = 10 kA Type: Class J / L, max. 700 A; lq = 10 kA G0 hp 60 hp 150 hp 100 hp 125 hp 250 hp R300-B300			

to ATEX							
PFHD with high demain relating to ATEX	nd rate according to IEC	61508	5E-7	1/h			
PFDavg with low dema relating to ATEX	and rate according to IE	C 61508	0.008				
hardware fault toleran ATEX	ce according to IEC 615	508 relating to	0				
T1 value for proof test IEC 61508 relating to A	t interval or service life a	according to	3 a				
certificate of suitabilit	y						
• ATEX			Yes				
• IECEx			Yes				
<ul> <li>according to ATE</li> </ul>	X directive 2014/34/EU		BVS ?	18 ATEX F 003 X			
type of protection acc	ording to ATEX directiv	e 2014/34/EU	II (2)0 [Ex dt	6 [Ex eb Gb] [Ex db Gb] [ o Mb]	Ex pxb Gb], II (2)D [Ex tb	Db] [Ex pxb Db], I (M2]	
pprovals Certificates							
General Product Appr	C E EG-Konf.	UK CA		<b>3</b>	<u>Confirmation</u>		
General Product Approval	EMV			For use in hazardous	locations	Test Certificates	
EHC	RCM	<u>KC</u>		X ATEX	IECEX	Type Test Certific- ates/Test Report	
Marine / Shipping					other	Environment	
ABS	B UREAU VERITAS	Hoyd's Register us		PRS	<u>Confirmation</u>	EPD	
Environment							
Siemens EcoTech	Environmental Con- firmations						
urther information							
Information on the page							
	siemens.com/cs/ww/en/v nloadcenter (Catalogs, I						
https://www.siemens.co Industry Mall (Online o	om/ic10 ordering system)						
	mens.com/mall/en/en/Cat	alog/product?mlfb=	3RW55	543-2HA14			
	n.siemens.com/WW/CAX			en&mlfb=3RW5543-2HA1	<u>4</u>		
Service&Support (Mar	nuals, Certificates, Char	acteristics, FAQs,	)				
Image database (prod	siemens.com/cs/ww/en/p uct images, 2D dimension siemens.com/bilddb/cax	on drawings, 3D m	nodels,		s, EPLAN macros,)		
Characteristic: Trippin https://support.industry.	ng characteristics, l <sup>2</sup> t, Le siemens.com/cs/ww/en/p	et-through current					
Characteristic: Installa		achy2view-Socrat	h&mlfh-	-3D/M/55/13 24/14 2 abia	ottype=148.gridviow=viow	/1	
http://www.automation.s	siemens.com/bilddb/index oft Starters (STS)	k.aspx (view=Searcr		<u>-357773343-2HA14&amp;0Dje0</u>	stype=14&gfldvlew=Vlev	<u>/1</u>	

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917



