## SIEMENS

## Data sheet

## 3RW5534-6HA04



SIRIUS soft starter 200-480 V 113 A, 24 V AC/DC Screw 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>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3244-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3244-6; 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>3NE1225-0; 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>3NE3231: 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
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)

• CE marking

• UL approval

product componentHMI-High Feature

CSA approval

• is supported HMI-High Feature

product feature integrated bypass contact system

Yes

Yes

Yes

Yes

Yes

Yes

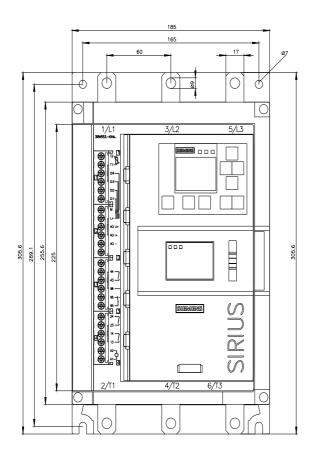
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between main and auxiliary circuit</li> </ul>	480 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
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
motor heating	Yes
<ul> <li>slave pointer function</li> </ul>	Yes
trace function	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes
event list	Yes
• error logbook	Yes
<ul> <li>via software parameterizable</li> </ul>	Yes
<ul> <li>via software configurable</li> </ul>	Yes
screw terminal	Yes
<ul> <li>spring-loaded terminal</li> </ul>	No
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
• torque control	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
<ul> <li>application wizards</li> </ul>	Yes

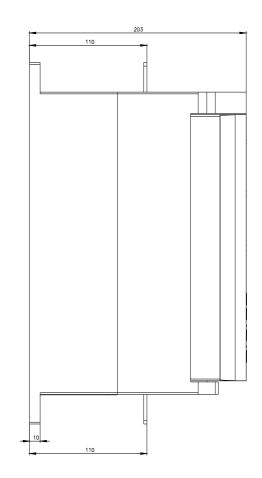
endinative fun down     energing operation     energing operation     energing operation     endination grine heavy stating conditions     Yes      Power Electronics     energing a heavy stating conditions     Yes      Power Electronics     energing a heavy stating conditions     Yes      Power Electronics     endination operating voltage     endination     e		Voo
every first granulation     every first granulation	alternative run-down	Yes
• exist starting on theory starting conditions         Yes           Power Electronics         • et al 0 ° Crated value         113 A           • et al 0 ° Crated value         101 A           • et al 0 ° Crated value         101 A           • et al 0 ° Crated value         101 A           • et al 0 ° Crated value         101 A           • et al 0 ° Crated value         101 A           • et al 0 ° Crated value         104 A           • et al 0 ° Crated value         175 A           • et al 0 ° Crated value         175 A           • et al 0 ° Crated value         175 A           • et al 0 ° Crated value         105 A           • et al 0 ° Crated value         105 A           • et al 0 ° Crated value         105 A           • et al 0 ° Crated value         105 A           • et al 0 ° Crated value         105 A           • et al 0 ° Crated value         105 A           • et al 0 ° Crated value         105 A           • et al 0 ° Crated ° Cratege         115 B           • et al 0 ° Crated ° Cratege         115 B           • et al 0 ° Crated ° Cratege         115 B           • et al 0 ° Crated ° Cratege         115 B           • et al 0 ° Crated ° Cratege         116 B           • et al 0 ° Crat		
operational current         113 A           • at a 0° C finet value         113 A           • at a 0° C finet value         101 A           • at a 0° C finet value         89 A           operational current at inside-data circuit         89 A           • at a 0° C finet value         89 A           operational current at inside-data circuit         196 A           • at a 0° C finet value         196 A           • at a 0° C finet value         196 A           • at a 0° C finet value         196 A           • at a 0° C finet value         200 480 V           • rated value         15 %           • rated value         16 %           • rated value         10 %           inside data circuit         10 %           inside data circuit         10 %           inside data circuit at 0 ° C rated value         65 kW           • at 200 V at 0° C rated value         60 hz           Operating frequency 7 rated value         00 hz           relative negative tolerance of the operating relative negative tolerance		
operational current         113 A           • at 40 °C rated value         113 A           • at 40 °C rated value         113 A           • at 60 °C rated value         101 A           • at 60 °C rated value         104 A           • at 60 °C rated value         104 A           • at 60 °C rated value         106 A           • at 60 °C rated value         196 A           • at 60 °C rated value         106 A           • at 60 °C rated value         200 480 V           • at 60 °C rated value         200 480 V           • at 60 °C rated value         200 480 V           • rated value         00 %           • at 230 V at 140 °C rated value         00 %           • at 230 V at 140 °C rated value         60 1/2           Operating frequency 7 rated value         00 1/2           Operating frequency 7 rated value         00 1/2           Operating frequency 7 rated value<		Yes
• at 40 °C rated value     113 Å       • at 40 °C rated value     88 Å       • at 50 °C rated value     195 Å       • at 50 °C rated value     196 Å       • at 50 °C rated value     196 Å       • at 60 °C rated value     196 Å       • at 60 °C rated value     196 Å       • at 80 °C rated value     200480 V       • at 81 °C rated value     200480 V       • at 81 °C rated value     200480 V       • relative negative tolerance of the operating voltage at 15 %     15 %       • relative negative tolerance of the operating voltage at 10 %     15 %       • at 230 V 44 °C rated value     56 kW       • at 230 V 44 °C rated value     56 kW       • at 230 V 44 °C rated value     56 kW       • at 230 V 44 °C rated value     56 kW       • at 230 V 44 °C rated value     50 hz       • at 230 V 44 °C rated value     50 hz       • at 230 V 44 °C rated value     50 hz       • at 230 V 44 °C rated value     50 hz       • at 400 V at 9°C rated value     50 hz       • at 400 V at 9°C rated value     50 hz       • at 400 V at 9°C rated value     50 hz       • at 400 V at 9°C rated value     50		
e. at 40 °C rates value     23 A       • at 60 °C rates value     101 A       • at 60 °C rates value     104 A       • at 60 °C rates value     106 A       • at 60 °C rates value     175 A       • at 60 °C rates value     164 A       • crader value     200 480 V       • at inside-deta circuit rates value     200 480 V       • at inside value     200 480 V       • at inside value     15 %       • rates value     16 %       ratistive positive tolerance of the operating voltage at 11 mixed obtain circuit     10 %       • at 230 V in inside obtain circuit at 40 °C rates value     56 kW       • at 200 V in inside obtain circuit at 40 °C rates value     56 kW       • at 200 V in inside obtain circuit at 40 °C rates value     50 kW       • at 400 V in inside obtain circuit at 40 °C rates value     50 kW       • at 400 V in inside obtain circuit at 40 °C rates value     50 kW       • at 400 V in inside obtain circuit at 40 °C rates value     50 kW       • at 400 V at inside obtain circuit at 40 °C rates value     50 kW       • at 400 V at inside obtain circuit at 40 °C rates value     50 kW       • at 40 °C abter starup     10 %       • at 60 °C	-	440.5
• at 60 °C rated value     60 A       • at 60 °C rated value     60 A       • at 40 °C rated value     195 A       • at 40 °C rated value     195 A       • at 60 °C rated value     195 A       • at 60 °C rated value     154 A       operational current at inside-deta circuit     154 A       operating value     200 480 V       • at inside-deta circuit rated value     200 480 V       • rated value     155 %       • rated value     155 %       • rated value     15 %       • rated value     15 %       • rated value     10 %       • rated value     50 W       • at 200 V at rated value     60 Hz       • at 200 V at rated value     60 Hz       • at 200 V at rated value     60 Hz       • rated value     10 %       <		
• et 80 °C rated value         69 A           operational current at inside-dela circuit         06 A           • at 80 °C rated value         175 A           • at 80 °C rated value         175 A           • at 80 °C rated value         200 480 V           • at 80 °C rated value         200 480 V           • rated value         60 %           • relative positive tolerance of the operating voltage         10 %           • relative positive tolerance of the operating voltage at inside-deta circuit         10 %           • at 200 V at inside-deta incuit at 40 °C rated value         50 kW           • at 200 V at inside-deta incuit at 40 °C rated value         50 kW           • at 40 °C rated value         60 Hz           • operating requency 1 rated value         60 Hz           • rated value ot the operating requency         10 %           • at 40 °C rates value         10 %           • at 40 °C rates value         10 %           • at 40 °C rates value		
operational current at inside-delta circuit         196 A           • at 60 °C rated value         175 A           • at 60 °C rated value         154 A           operating voltage         154 A           • at 60 °C rated value         200 480 V           • at 61 °C rated value         200 480 V           • at 61 °C detta circuit rated value         200 480 V           relative negative tolerance of the operating voltage         15 %           relative colorance of the operating voltage at inside-detta circuit         16 %           relative tolerance of the operating voltage at inside-detta circuit at 0° °C rated value         30 kW           • at 230 V at 40 °C rated value         30 kW           • at 230 V at 40 °C rated value         56 kW           • at 400 V at 160 °C rated value         60 Hz           Operating frequency 1 rated value         60 Hz           Operating frequency         10 %           • at 40 °C after startup         30 W           • at 60 °C during startup         10 %           • at 60 °C during startup<		
e at 40 °C rated value     e at 40 °C rated value     if 54     e at 50 °C rated value     200 480 V     e at inside-deta circuit rated value     200 480 V     relative negative tolerance of the operating voltage     15 %     relative negative tolerance of the operating voltage     15 %     relative negative tolerance of the operating voltage     10 %     relative positive tolerance of the operating voltage at     inside-deta circuit     operating requency     if at 230 V at inside-deta circuit at 40 °C rated value     if at 200 V at inside-deta circuit at 40 °C rated value     if at 200 V at inside-deta circuit at 40 °C rated value     if at 200 V at inside-deta circuit at 40 °C rated value     if at 200 V at inside-deta circuit at 40 °C rated value     if at 200 V at inside-deta circuit at 40 °C rated value     if at 200 V at inside-deta circuit at 40 °C rated value     if 0 %     if at 00 °C rated value     if 0 %     if at 00 °C rated value     if 0 %     if at 00 °C rated value     if 0 %     if at 0°C rated value     if 0 %     if 0 %     if 0 %     if at 0°C rated value     if 0 %		89 A
• at 50 °C rated value     175 A       • at 60 °C rated value     154 A       • rated value     200480 V       • at noide-feats circuit rated value     200480 V       relative negative tolerance of the operating voltage     15 %       relative negative tolerance of the operating voltage at instruction of the operating requerey in 0 %       • at 400 °C rated value     60 Hz       • at 400 °C after statup     10 %       • power loss (W) for rated value of the current at AC     •       • at 40 °C after statup     27 W       • at 40 °C during statup     10 %       • at 60 °C during statup	•	
• et 60 °C rated value     154 A       operating voltage     200480 V       • at inside-deta circul rated value     200480 V       relative negative tolerance of the operating voltage     10 %       relative negative tolerance of the operating voltage at inside-deta circul     -15 %       relative negative tolerance of the operating voltage at inside-deta circul     -15 %       operating power for 3-phase motors     -       • at 200 V at inside-deta circul at 40 °C rated value     56 kW       • at 400 V at 40 °C rated value     56 kW       • at 400 V at 40 °C rated value     50 kW       • at 400 V at 10 °C rated value     50 kW       • at 400 V at 10 °C rated value     50 kW       • at 400 V at 0°C rated value     50 kW       • at 400 V at 0°C rated value     50 kW       • at 400 V at 10 °C rated value     50 kW       • at 400 V at 10 °C rated value     50 kW       • at 400 V at 10 °C rated value     50 kW       • at 400 V at 10 °C rated value     50 kW       • at 400 V at 10 °C rated value     60 hz       • at 400 V at 10 °C rated value     60 kz       • power loss [W] for rated value     60 kz       • relative positive tolerance of the operating frequency     10 %       minimum load [%]     10 %       motor tools (W] for rated value     40 W       • at 60 °		
operating voltage         200 480 V           et inside delta circuit rated value         200 480 V           relative negative tolerance of the operating voltage         -15 %           relative negative tolerance of the operating voltage at inside-dotta circuit         -15 %           relative positive tolerance of the operating voltage at inside-dotta circuit         -15 %           relative positive tolerance of the operating voltage at inside-dotta circuit         -15 %           operating power for 3-phase motors         -15 %           e at 230 V at 40 °C rated value         55 kW           e at 230 V at 100 °C rated value         56 kW           e at 400 V at 1nside-delta circuit at 40 °C rated value         50 kW           operating frequency 1 rated value         50 kW           e at 400 V at 10 °C rated value         50 kW           operating frequency 1 rated value         60 Hz           operating frequency 1 rated value         60 Hz           operating frequency 1 rated value         60 Hz           relative negative tolerance of the operating frequency         10 %           relative positive tolerance of the operating frequency         10 %           et 40 °C after startup         30 W           et 40 °C after startup         30 W           et 40 °C during startup         1 500 W		
• refer value     200480 V       • at inside-difference of the operating voltage     15 %       relative negative tolerance of the operating voltage     15 %       relative negative tolerance of the operating voltage at inside-define circuit     16 %       relative negative tolerance of the operating voltage at inside-define circuit     16 %       relative negative tolerance of the operating voltage at inside-define circuit     16 %       operating prover for 3-phase motors     0 %       • at 230 V at 40 °C rated value     55 kW       • at 230 V at 40 °C rated value     56 kW       • at 400 V at hinside-define circuit at 40 °C rated value     56 kW       • at 400 V at hinside-define circuit at 40 °C rated value     50 kW       • at 400 V at hinside-define circuit at 40 °C rated value     50 kW       • at 400 V at hinside-define circuit at 40 °C rated value     50 kW       • at 400 V at hinside-define circuit at 40 °C rated value     50 kW       • at 400 C at define atomute     50 kW       • at 400 C at define atomute     50 kW       • at 400 C at define atomute     60 Hz       Operating frequency 2 rated value     60 Hz       Power loss [W] for rated value of the current at AC     10 %       • at 40 °C atter startup     30 W       • at 40 °C atter startup     30 W       • at 40 °C during startup     150 W       • at 40 °		154 A
• at Inside-delia circuit rated value     200 480 V       rolative negative tolerance of the operating voltage     15 %       relative positive tolerance of the operating voltage at Inside-delia circuit     15 %       rolative positive tolerance of the operating voltage at Inside-delia circuit     10 %       operating power for 3-phase motors     0       • at 230 V at 40 °C rated value     30 k/V       • at 230 V at 40 °C rated value     55 k/V       • at 400 V at and °C rated value     56 k/V       • at 400 V at and °C rated value     60 Hz       Operating frequency 1 rated value     60 Hz       Operating frequency 2 rated value     60 Hz       operating frequency     10 %       relative negative tolerance of the operating frequency     10 %       instatup     30 W       i at 60 °C after statrup     30 W       i at 60		
relative negative tolerance of the operating voltage       -15 %         relative positive tolerance of the operating voltage at inside-delta circuit       -15 %         relative negative tolerance of the operating voltage at inside-delta circuit       -15 %         relative negative tolerance of the operating voltage at inside-delta circuit       -15 %         relative negative tolerance of the operating voltage at inside-delta circuit       10 %         e at 230 V at 40 °C rated value       30 kW         e at 400 V at inside-delta circuit at 40 °C rated value       56 kW         e at 400 V at inside-delta circuit at 40 °C rated value       50 Hz         Operating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       60 Hz         relative negative tolerance of the operating frequency       -10 %         relative negative tolerance of the operating frequency       10 %         minimum load [%]       10 %: Relative to set le         power loss [W] for rated value       34 W         e at 30 °C atter starup       30 W         e at 40 °C during starup       1500 W         e at 50 °C atter starup       1500 W         e at 50 °C during starup       1500 W         e at 60 °C during starup       1074 W         type of the motor protection       Electronic, tripping in the event of thermal overload		
relative positive tolerance of the operating voltage at inside-delta circuit acriuit inside-delta circuit acriuit inside-delta circuit acriuit       -15 %         relative positive tolerance of the operating voltage at inside-delta circuit acriuit       -15 %         operating power for 3-phase motors       -15 %         • at 230 V at 40 °C rated value       30 kW         • at 230 V at inside-delta circuit at 40 °C rated value       55 kW         • at 400 V at 40 °C rated value       55 kW         • at 400 V at anside-delta circuit at 40 °C rated value       50 Hz         Operating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       60 Hz         relative positive tolerance of the operating frequency       10 %         relative nogative tolerance of the operating frequency       10 %         relative nogative tolerance of the operating frequency       10 %         • at 40 °C after startup       34 W         • at 40 °C after startup       34 W         • at 40 °C after startup       27 W         power loss [W] at A2 at current limitation 350 %       1 500 W         • at 60 °C during startup       1 279 W         • at 60 °C during startup       27 W         power loss [W] at A2 at current limitation 350 %       -20 %         • at 60 °C during startup       20 %		
relative against belance of the operating voltage at inside-obta circuit       -15 %         relative positive tolerance of the operating voltage at inside-obta circuit       10 %         relative positive tolerance of the operating voltage at inside-obta circuit       10 %         • at 220 V at 40 °C rated value       30 kW         • at 240 V at 40 °C rated value       55 kW         • at 400 V at inside-delta circuit at 40 °C rated value       56 kW         • at 400 V at inside-delta circuit at 40 °C rated value       60 Hz         Operating frequency 7 rated value       60 Hz         relative positive tolerance of the operating frequency       10 %.         relative negative tolerance of the operating frequency       10 %.         relative negative tolerance of the operating frequency       10 %.         power loss [W] of rated value of the current at AC       at 40 °C dater startup         at 40 °C dater startup       34 W         at 60 °C during startup       1074 W         v = at 60 °C during startup       1074 W         type of the motor protection       Electronic, tripping in the event of thermal ove		
Inside-delta circuit       10 %         relative positive tolerance of the operating voltage at inside-delta circuit       10 %         operating power loss (V) at 40 °C rated value       55 kW         • at 230 V at inside-delta circuit at 40 °C rated value       55 kW         • at 400 V at 40 °C rated value       56 kW         • at 400 V at 10 °C rated value       56 kW         • at 400 V at 10 °C rated value       50 hz         Operating frequency 1 rated value       50 hz         Operating frequency 2 rated value       60 hz         relative positive tolerance of the operating frequency       10 %         relative positive tolerance of the operating frequency       10 %         innimum load [½)       10 %         power loss [W] for rated value of the current at AC       is 40 °C after startup         • at 60 °C after startup       30 W         • at 60 °C after startup       1500 W         • at 60 °C during startup       1279 W         • at 60 °C during startup       1270 W         • at 60 °C during startup       1270 W         • at 60 °C during startup       20 %         • at 60 °C during startup       20 %         • at 60 °C during startup       20 %         • at 60 °C during startup       21 V         • at 60 °Lz rated v		
relative positive tolerance of the operating voltage at inside-defta circuit     10 %       operating power for 3-phase motors     30 kW       • at 230 V at 40 °C rated value     30 kW       • at 230 V at 40 °C rated value     55 kW       • at 400 V at inside-defta circuit at 40 °C rated value     56 kW       • at 400 V at inside-defta circuit at 40 °C rated value     50 kW       • at 400 V at inside-defta circuit at 40 °C rated value     50 kW       • at 400 V at inside-defta circuit at 40 °C rated value     60 Hz       Operating frequency 1 rated value     60 Hz       relative negative tolerance of the operating frequency     10 %       relative negative tolerance of the operating frequency     10 %       ininimum load [%]     10 %: Relative to set le       power loss [W] for rated value of the current at AC     • at 40 °C after startup       • at 60 °C after startup     30 W       • at 60 °C after startup     10 0 W       • at 60 °C during startup     1 500 W       • at 60 °C during startup     1 500 W       • at 60 °C during startup     1 074 W       type of the motor protection     Electronic, tripping in the event of thermal overload of the motor       Control supply voltage at AC     -20 %       • at 50 Hz rated value     24 V       relative negative tolerance of the control supply voltage at AC     -20 %       • at 60		-15 %
operating power for 3-phase motors     30 kW       • e1 230 V at 40 °C rated value     30 kW       • e1 230 V at 40 °C rated value     55 kW       • et at 400 V at inside-detic circuit at 40 °C rated value     55 kW       • et at 400 V at inside-detic circuit at 40 °C rated value     56 kW       • et at 400 V at inside-detic circuit at 40 °C rated value     56 kW       • operating frequency 1 rated value     60 Hz       Operating frequency 1 rated value     60 Hz       relative negative tolerance of the operating frequency     10 %.       minimum load [%]     10 %; Relative to set le       power loss [W] for rated value of the current at AC     4 W       • et 40 °C dater startup     30 W       • et 40 °C dater startup     30 W       • et 40 °C during startup     1 500 W       • et 60 °C during startup     1 279 W       • et 60 °C during startup     1 279 W       • et 60 °C during startup     1 279 W       • et 60 °C during startup     1 279 W       • et 60 °C during startup     2 27 W       type of the motor protection     Electronic, tripping in the event of thermal overload of the motor       Control supply voltage at AC     -20 %       • et 60 °Lz rated value     24 V       • et 60 °Lz rated value     24 V       relative negative tolerance of the control supply voltage at AC at 69 Hz   <	relative positive tolerance of the operating voltage at	10 %
• at 230 V at 40 °C rated value     30 kW       • at 230 V at 40 °C rated value     55 kW       • at 400 V at ho? Crated value     55 kW       • at 400 V at ho? Crated value     55 kW       • at 400 V at ho? Crated value     56 kW       Operating frequency 1 rated value     50 Hz       Operating frequency 2 rated value     60 Hz       relative positive 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     30 W       • at 60 °C after startup     30 W       • at 60 °C during startup     1 500 W       • at 60 °C during startup     1 500 W       • at 60 °C during startup     1 074 W       type of the motor protection     Electronic, tripping in the event of thermal overload of the motor       Control supply voltage at AC     -       control supply voltage at AC     -       relative negative tolerance of the control supply voltage at AC at 0 Hz     -       relative negative tolerance of the control supply voltage at AC at 0 Hz     -       for the rated value     24 V       • at 60 Hz rated value     24 V       • at 60 Hz rated value     20 %       • at 60 Hz r		
• at 230 V at inside-delta circuit at 40 °C rated value     55 kW       • at 400 V at 10°C rated value     55 kW       • at 400 V at 10°C rated value     110 kW       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     0 V       • at 40 °C dater startup     30 W       • at 60 °C after startup     30 W       • at 60 °C during startup     1 500 W       • at 60 °C during startup     1 279 W       • at 60 °C during startup     1 074 W       type of voltage of the control supply voltage     AC/DC       Control circuit/ control     24 V       • at 60 Hz rated value     20 %       • at 60 Hz rated value     20 %       • at 60 Hz     20 %       relative negative toleranc		30 kW
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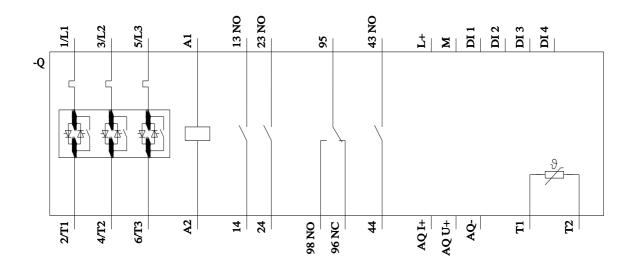
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pc	DC	
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design of abort-circuit protection for control circuit         4 A QS Ass (New 1 KA). A Quick acting fixe (Nor 1 KA). C1 ministure circuit breaker (Now 300 A). Is not part of score of supply           number of digital inputs         4           • parameterizable         4           • unmber of digital outputs         4           • unmber of digital outputs         4           • unmber of digital outputs parameterizable         3           • unmber of digital outputs parameterizable         1           digital output version         3 A           • all AC-15 all 250 V rated value         3 A           • all AC-15 all 250 V rated value         1 A           • all AC-15 all 250 V rated value         1 A           • all AC-15 all 250 V rated value         1 A           • all AC-15 all 250 V rated value         1 A           • all AC-15 all 250 V rated value         1 A           resultation momenting dimensions         9 aremative active diverse           mounting position         Vertical (can be rotated +i- 90° and liked forward or backward +i- 22.5°)           festering method         36 mm           width         100 mm           orwards         0 mm           • all AC-15 all 25 V rated value         36 mm           • for main contractis         57 mm           • for		20 ms
breaker (bace Box A), CB ministure circuit breaker (bace 300 A); Is not part of supplied Cotputs           number of digital inputs         4           • number of digital outputs         4           • number of digital outputs         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         1           digital output version         3           • AC-15 at 250 V radie value         1 A           extichting capeatify survert of the relay outputs         -           • AC-15 at 250 V radie value         3 A           • at AC-15 at 250 V radie value         1 A           Installator/ mounting/ dimensions         -           required spacing with side-by-side mounting         -           • diverting outputs         -	design of the overvoltage protection	Varistor
number of digital inputs         4           • number of digital outputs parameterizable         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         1           ottpath outputs of digital outputs and the raley outputs         1           • at AC-15 at 250 V rate value         3 A           • at AC-15 at 250 V rate value         3 A           • at AC-15 at 250 V rate value         1 A           • at AC-15 at 250 V rate value         3 A           • at DC-13 at 24 V rated value         1 A           • at AC-15 at 250 V rate value         3 A           • at DC-15 at 24 V rated value         3 A           • at AC-15 at 250 V rate value         3 A           • at DC-15 at 24 V rated value         3 A           • at AC-15 at 24 V rated value         3 A           • at AC-15 at 24 V rated value         3 A           • at AC-15 at 24 V rated value         3 A           • at AC-15 at 24 V rated value         3 A           • at AC-15 at 24 V rated value         3 A           • at AC-15 at 24 V rated value         3 A           • at AC-15 at 24 V rated value         3 A           • backwards         0 mm           • othy and Atta AC-15 Parameterizable         3	design of short-circuit protection for control circuit	breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of
• parameterizable4• number of digital outputs4• number of digital outputs parameterizable3• number of digital outputs not parameterizable3• number of digital outputs not parameterizable3• number of digital outputs5• number of analog outputs3• attAC-15 at 250 Virado value3A• attaAC-15 at 250 Virado value3A• attaAC-15 at 250 Virado value3A• attaALINOT mounting dimension1A• attaALINOT mounting dimension3D mm• attaALINOT mounting dimension1D mm• attaALINOT mounting1D mm• attaALINOT mounting5D mm• atta baside0 mm• atta baside5 mm• atta baside5 mm• atta baside5 mm• atta baside5 mm• atta baside50 m• atta basid	Inputs/ Outputs	
• prame4• unuber of digital outputs4• unuber of digital outputs parameterizable3• unuber of digital outputs not parameterizable3• unuber of digital outputs not parameterizable3• unuber of digital outputs not parameterizable3• unuber of digital outputs3• unuber of digital outputs not parameterizable3• unuber of analog outputs3• utc15 at 250 Virado value3• at DC-13 at 24V rated value3• at DC-13 at 24V rated value3• at DC-13 at 24V rated value36 mm• at DC-13 at 24V rated value306 mm• at DC-13 at 24V rated value306 mm• at DC-13 at 24V rated value306 mm• at DC-13 at 250 Virado value306 mm• at tabatio0 mm• at tabatio0 mm• backwards0 mm• at tabatio0 mm• at the side5 mm• at the side10 mm </td <td>number of digital inputs</td> <td>4</td>	number of digital inputs	4
		4
• number of digial outputs parameterizable3• number of digial outputs not parameterizable3• and Act S dig 20 outputs3• and Act S dig 20 outputs3 A• and Act S dig 20 Vrated value3 A• and Act S dig 20 Vrated value10 mm• and Act S dig 20 Vrated value10 mm• and Act S dig 20 Vrated value5 mm• and the side5 mm• and the side5 mm• and the side5 mm• and hour Act S dig 20 Vrated value2 Som• and the side5 mm• and hour Act S dig 20 Vrated value2 Som• and Neuted Coros-section = 1.5 mm <sup>1</sup> maximum		
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• number of algo uutputs 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 24 V rated value1 AInstantion mounting dimensions1mounting positionVertical (can be rotated +/- 90° and liked forward or backward +/- 22.5°)fastening method306 mmheight306 mmdigt000 mmequired spacing with side-by-side mounting100 mmelocavards0 mmelowards100 mmelocavards0 mm• lowards0 mm• lowards0 mm• lowards0 forman• lowards0 forman• lowards0 forman• lowards0 forman• lowards5 mm• of or antin current circuitbabar connection• for antin current circuit50 m• with conductor cross-section = 0.5 mm * autimum50 m• with conductor cross-section = 0.5 mm * autimum50 m• with conductor cross-section = 0.5 mm * autimum50 m• with conductor cross-section = 0.5 mm * autimum50 m• for ontho circuit side with core end procession2x (16		
digital output version3 normally-open contacts (NO) / 1 changeover contact (CO)number of analog outputs1witching capacity current of the rolay outputs3 A• at AC-15 at 250 V rated value3 A• at DC-13 at 24 V rated value3 AIbclaited montaning dimensionVertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)fastening methodscrew fixingheight306 nmdepth306 nmof owards00 nm• forwards00 nm• forwards0 nm• forwards0 nm• downwards5 rnm• downwards5 rnm• of main current circuit5 rnm• of main current circuit5 rnm• of main current circuitscrew/type terminals• of ro montol circuitscrew/type terminals• of ro montol circuitscrew/type terminals• of ro montol circuitscrew/type terminals• of ro control circuitSo nm• with conductor cross-section = 0.5 nm* maximum150 nn• with conductor cross-section = 1.5 nm* maximum150 nn• with conductor cross-section = 1.5 nm* maximum150 nn• of ro IN kable lug for main contacts stranded2x (1695 nm*)• for control circuit sold1x (0.5 4.0 nm*), 2x (0.5 2.5 nm*)• for control circuit sold1x (0.5 4.0 nm*), 2x (0.5 2.5 nm*)• for control circuit sold1x (0.5 4.0 nm*), 2x (0.5 2.5 nm*)• for control circuit sold1x (0.5 4.0 nm*), 2x (0.5 2.5 nm*)		
number of analog outputs         1           switching capacity current of the relay outputs         3.A           • at DC-13 at 24 V rated value         3.A           • at DC-13 at 24 V rated value         1.A           Installation mounting dimensions         Fertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fastening method         screw fixing           height         306 mm           videth         185 mm           depth         203 mm           required spacing with side-by-side mounting         0 mm           • forwards         10 mm           • backwards         75 mm           • forwards         100 mm           • downwards         56 mm           • downwards         57 mm           • at the side         5 mm           weight without packaging         6.8 kg           Connections/ Terminats         busbar connection           • for main current circuit         screw-type terminals           with onductor 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-sections         50 m           • for control circuit fundy stranded         2x (16 95 mm <sup>2</sup> )		
switching capacity current of the relay outputs         3 A           • 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 tiled 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           • downwards         5 mm           • downwards         5 mm           • otomestions / Terminals         type of electrical connection           • for main current circuit         busbar connection           • for onnic circuit         busbar connection           • 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 = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • for DIN cable lug for main contacts stranded         2x (16 95 mm <sup>2</sup> )           • for control circuit solid         1x (0.5 2.		
• at AC-15 at 250 V rated value     3 A       • at DC-13 at 24 V rated value     1 A       installation/installatinstallation/installation/installation/installatinstallation		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 mm           width         486 mm           depth         203 mm           required spacing with side-by-side mounting         -           • forwards         0 mm           • backwards         0 mm           • backwards         0 mm           • downwards         75 mm           • downwards         5 mm           • downwards         5 mm           • downwards         5 mm           • downwards         5 mm           • for main current circuit         busbar connection           • for control circuit         screw-type terminals           width of connection bar maximum         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 2.5 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 conteats stranded         2x (16		
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         or main science           of orwards         10 mm           obackwards         0 mm           obackwards         100 mm           obackwards         5 mm           odownwards         76 mm           oth the side         5 mm           weight without packaging         6.85 kg           Connections/ Terminals         50 mm           weight without packaging         50 m           of or main current circuit         busbar connection           with 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           of or DIN cable lug for main contacts finely stranded         2x (16		
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           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         6.85 kg           Connections/ Terminals         5 mm           with conductor cross-section = 0.5 mm <sup>2</sup> maximum         25 mm           • for ronin current circuit         busbar connection           • 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 = 0.5 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 (16		1 A
fastening method         screw fixing           height         306 mm           width         185 mm           depth         203 mm           required spacing with side-by-side mounting         10 mm           • forwards         0 0 mm           • backwards         0 mm           • backwards         0 mm           • backwards         0 mm           • downwards         75 mm           • at the side         5 mm           • at the side         5 mm           • oth wind the packaging         6.85 kg           Connections/ Terminals         5 mm           type of electrical connection         5 mm           • for main current circuit         busbar connection           • for monicurrent circuit         screw-type terminals           width of connection bar maximum         25 mm           • with conductor cross-section = 0.5 mm <sup>*</sup> maximum         50 m           • with conductor cross-section = 2.5 mm <sup>*</sup> maximum         250 m           type of connectable conductor cross-sections         4x (16	Installation/ mounting/ dimensions	
height         306 mm           width         185 mm           depth         203 mm           required spacing with side-by-side mounting         203 mm           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         6.85 kg           Connectional/ forminals         5 mm           type of electrical connection         6.85 kg           • for onich clicuit         screw-type terminals           with of connection bar maximum         25 mm           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         150 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         250 m           • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         250 m           • for DIN cable lug for main contacts stranded         2x (16 95 mm <sup>2</sup> )           • for OIN cable lug for main contacts stranded         2x (25 120 mm <sup>2</sup> )           • for OIN cable lug for main contacts stranded         2x (25 120 mm <sup>2</sup> )           • for OIN cable lug for main contacts stranded <td>mounting position</td> <td>Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)</td>	mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
vicitin         185 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         6.85 kg           Connections/ Torminals         50 mm           type of electrical connection         6 main current circuit           • for main current circuit         busbar connection           • for themistor connection         50 m           • with 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           • with conductor cross-section = 2.5 mm² maximum         50 m           • with conductor cross-sections         2.5 mm?           • for DIN cable lug for main contacts finely stranded         2x (26 120 mm²)           • for control circuit finely stranded with core end processing         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           • for control circuit finely stranded with core end processing         1x (20 12), 2x (20 14)           wite length	fastening method	screw fixing
depth         203 mm           required spacing with side-by-side mounting         -           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           woight without packaging         6.85 kg           Connections/ Terminals         5 mm           type of electrical connection         5 screw-type terminals           • for ontrol circuit         screw-type terminals           witch of connection series.         25 mm           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         250 m           • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         250 m           • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         250 m           • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         250 m           • for DIN cable lug for main contacts stranded         2x (16 95 mm <sup>2</sup> )           • for ontrol circuit finely stranded with core end processing         1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )           • for control circuit finely stranded with core end processing         1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • for control circuit finely stranded with core end processing         1x (0.5 4.	height	306 mm
required spacing with side-by-side mounting       10 mm         • forwards       0 mm         • backwards       0 mm         • upwards       00 mm         • downwards       75 mm         • at the side       5 mm         • for main current circuit       6.85 kg         • for oratic circuit       screw-type terminals         width of connection       5 mm         • for control circuit       screw-type terminals         width of connection bar maximum       50 m         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       250 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       250 m         • for DIN cable lug for main contacts finaly stranded       2x (16 95 mm <sup>2</sup> )         • for control circuit finely stranded       2x (26 120 mm <sup>2</sup> )         • for control circuit sold       1x (0.5 2.5 mm <sup>2</sup> )         • for control circuit sold       1x (0.5 2.5 mm <sup>2</sup> )         • for control circuit sold       1x (20 12), 2x (20 14)         wire length       60 m	width	185 mm
• forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side76 mm• at the side6.85 kgConnections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for control circuitscrew-type terminalswith conductor cross-section = 0.5 mm <sup>3</sup> maximum50 m• with conductor cross-section = 1.5 mm <sup>3</sup> maximum50 m• with conductor cross-section = 1.5 mm <sup>3</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>3</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>3</sup> maximum50 m• for DIN cable lug for main contacts stranded2x (16 95 mm <sup>3</sup> )• for DIN cable lug for main contacts stranded2x (16 95 mm <sup>3</sup> )• for control circuit solid1x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 2.5 mm <sup>3</sup> )• for control circuit solid1x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 2.5 mm <sup>3</sup> )• for control circuit solid1x (0.5 2.5 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>3</sup> )• for control circuit solid1x (0.5 2.5 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>3</sup> )• for AWG cables for control circuit solid100 m• at the digital inputs at DC maximum800 m• at the digital inputs at DC maximum1000 m• tighting torque1000 m• for maxiliary and control contacts with screw-type terminals0 14 N·m• for maxiliary and control contacts with screw-type0.8 1.2 N·m	depth	203 mm
backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging6.85 kgConnections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum50 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 maximum150 m• with conductor cross-section = 2.5 mm² maximum2x (16 95 mm³)• with conductor cross-sections2x (16 95 mm³)• for DIN cable lug for main contacts stranded2x (25 120 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²) (2.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (20 12), 2x (20 14)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid800 m• at the digital inputs at DC maximum800 m• at the digital inputs at DC maximum600 m• at the digital inputs at DC maximum100 m• for main contacts with screw-type terminals014 N·m• for maxiliary and control contacts with screw-type0.812 N·m	required spacing with side-by-side mounting	
• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging65 kgConnections/Terminals5 kgConnections/Terminals5 kg• for main current circuitbusbar connection• for control circuitscrew-type terminalswitch of connection bar maximum50 mm• with conductor cross-section = 0.5 mm² maximum50 m• for DIN cable lug for main contacts stranded2x (16 95 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for actilia inputs at DC maximum800 m• at the digital inputs at DC maximum800 m• at the digi	<ul> <li>forwards</li> </ul>	10 mm
c downwards75 mm• at the side5 mm• beight without packaging6.85 kgConnections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum25 mmwith 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 maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (16 95 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for rontrol circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for rontrol circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for maximum800 m• between soft starter and motor maximum800 m• at the digital inputs at DC maximum000 m• tightning torqueI• for main contacts with screw-type terminals1014 N·m• for maxiliary and control contacts with screw-type0.812 N·m	backwards	0 mm
• at the side5 mmweight without packaging6.85 kgConnections/ Terminalstype of electrical connectionbusbar connection• for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum25 mm• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum250 m• with conductor cross-section = 1.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (16 95 mm²)• for connectable conductor cross-sections2x (25 120 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (20 12), 2x (20 14)• for advilia pust a DC maximum800 m• at the digital inputs at DC maximum800 m• for main contacts with screw-type terminals10 14 N·m• for main contacts with screw-type terminals0 12, Nrm	• upwards	100 mm
weight without packaging         6.85 kg           Connections/Terminals         type of electrical connection           • for main current circuit         busbar connection           • for control circuit         busbar connection           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         250 m           • with conductor cross-section = 2.5 mm² maximum         250 m           • with conductor cross-section = 2.5 mm² maximum         250 m           • with conductor cross-sections         2x (16 95 mm²)           • for DIN cable lug for main contacts stranded         2x (16 95 mm²)           • for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           • for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)           • for control circuit finely stranded with core end processing         1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)           • for control circuit finely stranded with core end processing         1x (20 12), 2x (20 14)           wire length         • for auxiliary and motor maximum         800 m           • at the digital inputs at DC maximum         1000 m         100 m	downwards	75 mm
Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         25 mm         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         50 m         • 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 control circuit solid         • for control circuit finely stranded with core end processing         • for control circuit solid         • for control circuit solid         • for control circuit solid         • for AWG cables for control circuit solid         • for AWG cables for control circuit solid         • for AWG cables for control circuit solid         • for auxiliary and motor maximum         • between soft starter and motor maximum         • between soft starter and motor maximum         • bot main contacts with screw-type terminals         • for main contacts with screw-type terminals         • for main contacts with screw-type         • for main contacts with screw-type	at the side	5 mm
Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         25 mm         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         50 m         • 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 control circuit solid         • for control circuit finely stranded with core end processing         • for control circuit solid         • for control circuit solid         • for control circuit solid         • for AWG cables for control circuit solid         • for AWG cables for control circuit solid         • for AWG cables for control circuit solid         • for auxiliary and motor maximum         • between soft starter and motor maximum         • between soft starter and motor maximum         • bot main contacts with screw-type terminals         • for main contacts with screw-type terminals         • for main contacts with screw-type         • for main contacts with screw-type	weight without packaging	6.85 kg
type of electrical connection         busbar connection           • for main current circuit         busbar connection           • for control circuit         screw-type 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         250 m           • with conductor cross-section = 2.5 mm² maximum         250 m           type of connectable conductor cross-sections         50 m           • for DIN cable lug for main contacts stranded         2x (16 95 mm²)           • for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           • for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           • for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)           • for control circuit solid         1x (20 12), 2x (20 14)           wire length         800 m           • between soft starter and motor maximum         1000 m           • tightening torque         100 m           • for main contacts with screw-type terminals         00. m. 14 N·m           • for auxiliary and control contacts with screw-type         0.8 1.2 N·m		5
for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum25 mmwire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• type of connectable conductor cross-sections2x (16 95 mm²)• for DIN cable lug for main contacts stranded2x (25 120 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m• at the digital inputs at DC maximum800 m• for main contacts with screw-type terminals10 14 N·m• for main contacts with screw-type0.8 1.2 N·m		
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• for DIN cable lug for main contacts finely stranded2x (25 120 mm²)type of connectable conductor cross-sections• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m• between soft starter and motor maximum800 m• at the digital inputs at DC maximum1000 mtightening torque10 14 N·m• for main contacts with screw-type terminals0.8 1.2 N·m		
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<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 solid</li> <li>tx (0.5 4.0 mm<sup>2</sup>), 2x (0.5 2.5 mm<sup>2</sup>)</li> <li>tx (0.5 4.0 mm<sup>2</sup>), 2x (0.5 1.5 mm<sup>2</sup>)</li> <li>tx (0.5 1.2 N·m</li> <li>to main contacts with screw-type</li> <li>0.8 1.2 N·m</li> </ul>		2x (25 120 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>1x (0.5 2.5 mm<sup>2</sup>), 2x (0.5 1.5 mm<sup>2</sup>)</li> <li>1x (20 12), 2x (20 14)</li> <li>wire length</li> <li>between soft starter and motor maximum</li> <li>800 m</li> <li>at the digital inputs at DC maximum</li> <li>1000 m</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>0.8 1.2 N·m</li> </ul>	type of connectable conductor cross-sections	
• for AWG cables for control circuit solid       1x (20 12), 2x (20 14)         wire length       •         • between soft starter and motor maximum       800 m         • at the digital inputs at DC maximum       1000 m         tightening torque       •         • for main contacts with screw-type terminals       10 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m	<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
wire length       starter and motor maximum         • between soft starter and motor maximum       800 m         • at the digital inputs at DC maximum       1 000 m         tightening torque       Image: Comparison of the compa	<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
between soft starter and motor maximum     at the digital inputs at DC maximum     tightening torque     for main contacts with screw-type terminals     for auxiliary and control contacts with screw-type     0.8 1.2 N·m	<ul> <li>for AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
• at the digital inputs at DC maximum       1 000 m         tightening torque	wire length	
tightening torque         • for main contacts with screw-type terminals         10 14 N·m         • for auxiliary and control contacts with screw-type         0.8 1.2 N·m	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
tightening torque         • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type         0.8 1.2 N·m	<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>0.8 1.2 N·m</li> </ul>		
• for auxiliary and control contacts with screw-type 0.8 1.2 N·m		10 14 N·m
terminais	terminals	

tightening torque [lbf·in]	
for main contacts with screw-type terminals	89 124 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	s oos m, berdung as of roos m, see outlog
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	40 900 °C
during operation according to IEC 60721	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 inside the devices), 1M4 $$
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
PROFINET high-feature	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
<ul> <li>— usable for Standard Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
— usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
<ul> <li>usable for High Faults at 575/600 V at inside- usable for Standard Faults at 575/600 V at inside-</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
delta circuit according to UL  • of the fuse	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; lq = 10 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 350 A; Iq = 100 kA
<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; lq = 10 kA
— usable for High Faults at inside-delta circuit up to     575/600 V according to UL	Type: Class J / L, max. 350 A; lq = 100 kA
operating power [hp] for 3-phase motors	20 hz
• at 200/208 V at 50 °C rated value	30 hp
• at 220/230 V at 50 °C rated value	30 hp
• at 460/480 V at 50 °C rated value	75 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	50 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	60 hp
at 460/480 V at inside-delta circuit at 50 °C rated value	125 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility ATEX	acc. to IEC 60947-4-2
certificate of suitability	
• ATEX	Yes

IECEx     according to ATE	X directive 2014/34/EU		Yes BVS 18 ATEX	F 003 X		
type of protection acc					Ex pxb Gb], II (2)D [Ex tb	Db] [Ex pxb Db], I (M2
hardware fault toleran ATEX	ce according to IEC 6	1508 relating to	0			
PFDavg with low dema relating to ATEX	and rate according to	IEC 61508	0.008			
PFHD with high demai to ATEX	nd rate according to E	N 62061 relating	5E-7 1/h			
Safety Integrity Level	(SIL) according to IEC	61508 relating	SIL1			
F1 value for proof test EC 61508 relating to A		e according to	3 a			
ertificates/ approvals	ioval		_	_		EMC
General Product Appr	ovai					EMC
(S) M		Confirmatio	1	(Ψ) L	EHC	RCM
For use in hazardous	locations	Declaration of formity	Con- Test Co	ertificates	Marine / Shipping	
IECEx	K ATEX	CE EG-Konf.		<u>Test Certific-</u> Test Report	ABS	BUREAU VERITAS
Marine / Shipping		other				
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http://www.automation.s Characteristic: Trippir https://support.industry. Characteristic: Installa	ng characteristics, I <sup>2</sup> t, siemens.com/cs/ww/en ation altitude siemens.com/bilddb/ind oft Starters (STS)	Let-through curren /ps/3RW5534-6HA04 ex.aspx?view=Searc	t <u>4/char</u>	-	cttype=14&gridview=view	<u>1</u>







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