## **SIEMENS**

Data sheet 3RW5558-6HA04

SIRIUS



SIRIUS soft starter 200-480 V 1280 A, 24 V AC/DC Screw terminals

Figure similar

product brand name

product brane	
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>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2716-7AB05-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3x3NA3365-6; 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>	3NB3357-1KK26; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3x3NE3340-8; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 50 %
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 acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes

# HMH-High Feature		_
# is supported HMH-High Feature   Yes   product feature integrated bypase contact system   mumber of controlled phases   3	product component	
mumber of controlled phases  13  Try class  Current unbalance limiting value [%]  recovery time after overload trip adjustable  buffering time in the event of power failure  • for main current circuit  • between main and sudiling circuit  • for main and sudiling circuit  • for main and sudiling circuit  • for corrent code acc. to IEC 80947-42  AC 83a  • for for fill main and sudiling circuit  • for for for fill main and sudiling circuit  • for for for fill main and sudiling circuit  • for for for fill main and sudiling circuit  • for for for fill main and sudiling circuit  • for for for fill main and sudiling circuit  • for for for fill main and sudiling circuit  • for for for fill main and sudiling circuit  • for for fo	9	
number of controlled phases   3   Class 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2   10 60 %   10 60 %   10 80 %   1		
trip class current unbalance limiting value [%] ground-fault monitoring limiting value [%] recovery time after overload trip adjustable buffering time in the event of power failure  • for main current circuit  • for control dicuit  100 ms  • for control dicuit  • for control dicuit  • for control dicuit  100 ms  • for control		
Current unbalance limiting value [%]   10 9 %	·	
ground-fault monitoring limiting value (%)  eccovery time after overload trip adjustable buffering time in the event of power failure  • for main current clicuit  • for m		
recovery time after overload trip adjustable buffering time in the event of power failure  • for main current circuit  • for control circ		
buffering time in the event of power failure  • for main current circuit  day  degree of pollution  impulse voltage rated value  6 kW  maximum permissible voltage for the thyristor maximum  • between main and auxiliary circuit  • for work resistance rated value  • for work resistance  • for some consideration of the mission connection  • for work resistance  • for some consideration  • for main current circuit  • for main current circuit  • for some consideration of the mission connection  • for main current circuit  • for some consideration of the mission connection  • for some consideration of the mission connection  • for some consideration of the mission of rotation  • for some paped on both directions of rotation  • for pound current function  • for pound consideration  • for some consideration of the mission of rotation  • for consideration of the mission of rotation  • for consideration of the mission motor protection  • motor heating  • evaluation of thermistor motor protection  • misside-delta circuit  • evaluation of thermistor motor protection  • misside-delta circuit  • evaluation of thermistor motor protection  • misside-delta circuit  • evaluation of thermistor motor protection  • poperating measured value display  • event list  • was oftware configurable  • vas software configurable  • firmware update		
• for main current circuit  • for control circuit  tot time adjustable  0 255 s  Insulation voltage rated value  480 V  degree of politution  3, acc. to IEC 60947-4-2  impulse voltage resistance rated value  1400 V  surge voltage resistance rated value  5 kV  1.15  6 kV  maximum permissible voltage for safe isolation  • between main and auxiliary circuit  4 blocking voltage or esistance rated value  6 kV  6 kV  1.15  6 kV  maximum permissible voltage for safe isolation  • between main and auxiliary circuit  4 block resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  15 mm up to 6 Hz. 2 g up to 500 Hz  reference code acc. to IEC 61346-2  Q  2 usbstance Prohibitance (Date)  • ramp-up (soft starting)  • ramp-up		60 1 800 s
idle time adjustable 0 255 s insulation voltage rated value 480 V degree of pollution 3, a.cc. to IEC 60947-4-2 impulse voltage rated value 6 kV blocking voltage of the thyristor maximum 1400 V service factor 1.15 surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation between main and audilizing circuit 6 kV control of the vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration 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 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.0,2019 00:00:00 Preduct function 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.0,2019 00:00:00 Preduct function 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.0,2019 00:00:00 Preduct function 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.0,2019 00:00:00 Preduct function 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.0,2019 00:00:00 Preduct function 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 10:00:00:00 Preduct function 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 10:00:00:00 Preside Code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 10:00:00:00 Preside Code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 10:00:00:00 Preside Code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 10:00:00:00 Preside Code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 10:00:00:00 Preside Code acc. to IEC 81346-2 Q Substance Prohibitance P	•	
Insulation voltage rated value   480 V		
insulation voltage rated value degree of pollution 3, acc. to IEC 60947-4-2 Impulse voltage rated value 6 kV blocking voltage of the thyristor maximum 5 ervice factor 5 kV surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 6 between main and auxiliary circuit 600 V. does not apply for thermistor connection utilization category acc. to IEC 60947-4-2 8 chock 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  reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 7 camp-up (soft starting) 6 ramp-down (soft stop) 7 es 9 camp-down (soft stop) 9 camp-down (soft stop) 9 camp-down (soft stop) 9 camp-down directions of rotation 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 creep speed in both direction of Yes 9 calve pointer function 9 c		
degree of pollution   3, acc. to IEC 60947-4-2		
Impulse voltage rated value   6 kV   1400 V		
Service factor   1.15		
surge voltage resistance rated value maximum permissible voltage for safe isolation • between main and auxiliary circuit  utilization category acc. to IEC 60947-4-2 AC 53a shock resistance  vibration resistance  vibration resistance  feference code acc. to IEC 81346-2  Gu Substance Prohibitance (Cate)  ram-up (soft starting) • ramp-down (soft stop) • reak-away pulse • respect of the safe function • creep speed in both directions of rotation • label pump ramp down • label pump ramp down • lintrinsic device protection • intrinsic device protection • motor overload protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • evaluation of thermistor motor protection • inside-delta circuit • evaluation of thermistor motor protection • permote reset • communication function • perating measured value display • event list • error logbook • via software parameterizable • via software configurable • firmware update • firmware update		
surge voltage resistance rated value maximum permissible voltage for safe isolation between main and auxiliary circuit 600 V; does not apply for thermistor connection  vitilization category acc. to IEC 60947-4-2 AC 53a 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  reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.02.2019 00:00:00  ramp-up (soft starting) ramp-down (soft stop) readway pulse ramp-down (soft stop) readway pulse reps peed in both directions of rotation reps reps device protection reps peed in both directions of rotation reps reps device protection reps reps device protection reps reporter function repert reporter function reps reporter function reps reporter function reporter function repert reporter function repert reporter function repert reporter function reporter function repert reporter function r	blocking voltage of the thyristor maximum	1 400 V
maximum permissible voltage for safe isolation  • between main and auxiliary circuit  dilization category acc. to IEC 60947-42  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  reference code acc. to IEC 81346-2  Q  Substance Prohibitance (Date)  11.02.2019 00.00.00  Yes  • ramp-down (soft stop)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • motor overload protection  • motor overload protection  • motor overload protection  • motor overload protection  • remote reset  • communication function  • remote reset  • communication function  • creep again easured value display  • event list  • event list  • ever list  • ever list  • ever configurable  • vis software configurable  • vis software configurable  • vis software configurable  • sirm, dyne terminal  • PROFlenergy  • firmware update		
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utilization category acc. to IEC 60947-4-2         AC 53a           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           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         11.02.2019 00:00:00           product function         11.02.2019 00:00:00           armp-up (soft starting)         Yes           a ramp-down (soft stop)         Yes           breakaway pulse         Yes           cadjustable current limitation         Yes           captistation both directions of rotation         Yes           pump ramp down         Yes           DC braking         Yes           motor heating         Yes           slave pointer function         Yes           strace function         Yes           intrinsic device protection         Yes           end trace function         Yes           evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) (When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit           evaluation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           rem		
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vibration resistance         15 mm up to 6 Hz; 2 g up to 500 Hz           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         11.02.2019 00:00:00           product function         Yes           • ramp-up (soft starting)         Yes           • breakaway pulse         Yes           • adjustable current limitation         Yes           • creep speed in both directions of rotation         Yes           • DC braking         Yes           • motor heating         Yes           • larace function         Yes           • larace function         Yes           • intrinsic device protection         Yes           • motor overload protection         Yes           • evaluation of thermistor motor protection         Yes           • remotor everload protection         Yes           • inside-delta circuit         Yes           • auto-RESET         Yes           • remote reset         Yes           • communication function         Yes           •		
reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         11.02.2019 00:00:00           product function         11.02.2019 00:00:00           e ramp-up (soft starting)         Yes           • ramp-down (soft stop)         Yes           • breakaway pulse         Yes           • adjustable current limitation         Yes           • creep speed in both directions of rotation         Yes           • pump ramp down         Yes           • DC braking         Yes           • motor heating         Yes           • slave pointer function         Yes; rull motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection accordin	shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
Substance Prohibitance (Date)   11.02.2019 00.00:00	vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
ramp-up (soft starting) ramp-up (soft starting) ramp-up (soft starting) ramp-up (soft starting) ramp-down (soft stop) reseakaway pulse reseakawayayayayayayayayayayayayayayayayayay	reference code acc. to IEC 81346-2	
ramp-up (soft starting)     ramp-down (soft stop)     breakaway pulse     adjustable current limitation     creep speed in both directions of rotation     pump ramp down     DC braking     motor heating     slave pointer function     intrinsic device protection     motor overload protection     motor overload protection     motor overload protection     motor overload protection     res; Full motor protection (thermistor motor protection and electronic motor overload protection)     when we will be a provided to according to ATEX, an upstream contactor is required in inside-delta circuit.      evaluation of thermistor motor protection     inside-delta circuit     auto-RESET     yes     auto-RESET     yes     remote reset     yes     communication function     operating measured value display     event list     ves     error logbook     via software parameterizable     via software parameterizable     via software parameterizable     via software parameterizable     via software configurable     screw terminal     PROFlenergy     firmware update	. ,	11.02.2019 00:00:00
ramp-down (soft stop)     breakaway pulse     adjustable current limitation     creep speed in both directions of rotation     pump ramp down     pump ramp down     DC braking     motor heating     slave pointer function     intrinsic device protection     intrinsic device protection     motor overload protection     motor overload protection     motor overload protection     motor overload protection     inside-delta circuit     auto-RESET     manual RESET     remote reset     communication function     operating measured value display     event list     ves     evaluation of circuit     ves     communication function     operating measured value ramped in the state of the state	product function	
breakaway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking Stave pointer function Fes slave pointer function Fes motor overload protection Fes	<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> <li>DC braking</li> <li>motor heating</li> <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>yes; Full motor protection (thermistor motor protection and electronic motor overload protection)</li> <li>wesilvation of thermistor motor protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>evaluation electronic motor protection</li> <li>inside-delta circuit</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>yes</li> <li>auto-RESET</li> <li>remote reset</li> <li>communal RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>serce w terminal</li> <li>spring-type terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul>	<ul><li>ramp-down (soft stop)</li></ul>	Yes
creep speed in both directions of rotation     pump ramp down     Yes     DC braking     motor heating     slave pointer function     trace function     intrinsic device protection     motor overload protection     wes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.      evaluation of thermistor motor protection     inside-delta circuit     ves     auto-RESET     yes     manual RESET     yes     remote reset     communication function     operating measured value display     event list     error logbook     via software parameterizable     via software configurable     via software configurable     via software configurable     spring-type terminal     spring-type terminal     PROFlenergy     firmware update	<ul><li>breakaway pulse</li></ul>	Yes
<ul> <li>pump ramp down</li> <li>DC braking</li> <li>motor heating</li> <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>yes; Full motor protection (thermistor motor protection and electronic motor overload protection)</li> <li>wes; Full motor protection (thermistor motor protection and electronic motor overload protection)</li> <li>wes; Full motor protection (thermistor motor protection according to ATEX, an upstream contactor is required in inside-delta circuit</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>yes</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>yes</li> <li>communication function</li> <li>yes</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-type terminal</li> <li>pronnection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>firmware update</li> </ul>	<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>DC braking</li> <li>motor heating</li> <li>slave pointer function</li> <li>trace function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>wes; 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.</li> <li>evaluation of thermistor motor protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>yes</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>event list</li> <li>ves</li> <li>event list</li> <li>ves</li> <li>via software parameterizable</li> <li>ves</li> <li>sinde-delta circuit</li> <li>yes</li> <li>event isoftware configurable</li> <li>ves</li> <li>via software configurable</li> <li>yes</li> <li>screw terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul>	<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
<ul> <li>motor heating</li> <li>slave pointer function</li> <li>trace function</li> <li>trace function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>wes; 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.</li> <li>evaluation of thermistor motor protection</li> <li>yes; Type A PTC or Klixon / Thermoclick</li> <li>inside-delta circuit</li> <li>yes</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>evant list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>ves</li> <li>screw terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul> Yes 1 1 Yes 1 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 3 3 3 4 2 2 2 3 3 4 3 4 5 3 4 3 4 5 4 5 4 5 5 4 5 5 5 4 5 5 5 6 6 1 1 2 4 5 5 5 4 5 5 4 5 5 5 6 1 7 6 1 1 2 2 2 3 4 5 4 5 4 5 4 5 4 5 5 4 5 5 6 7 8 7 8 9 9 1 1 2 4 1 2 2 4 2 4 2 4 4 4 5 4 5 5 4 5 6 7 8 7 </th <th><ul> <li>pump ramp down</li> </ul></th> <th>Yes</th>	<ul> <li>pump ramp down</li> </ul>	Yes
<ul> <li>slave pointer function</li> <li>trace function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>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.</li> <li>evaluation of thermistor motor protection</li> <li>yes; Type A PTC or Klixon / Thermoclick</li> <li>inside-delta circuit</li> <li>yes</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>event list</li> <li>yes</li> <li>event list</li> <li>yes</li> <li>via software parameterizable</li> <li>ves</li> <li>screw terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul>	<ul> <li>DC braking</li> </ul>	Yes
<ul> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>Yes</li> <li>motor overload protection</li> <li>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.</li> <li>evaluation of thermistor motor protection</li> <li>yes; Type A PTC or Klixon / Thermoclick</li> <li>inside-delta circuit</li> <li>yes</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>event list</li> <li>yes</li> <li>event list</li> <li>yes</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>sorew terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul> Yes <ul> <li>firmware update</li> </ul>	<ul> <li>motor heating</li> </ul>	Yes
<ul> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>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.</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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul> Fessor <ul> <li>yes</li> </ul> Firmware update <ul> <li>Yes</li> </ul> Yes <ul> <li>yes</li> <li>yes</li> <li>yes</li> </ul> Feature communication modules <ul> <li>Yes</li> </ul>	<ul> <li>slave pointer function</li> </ul>	Yes
<ul> <li>motor overload protection</li> <li>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.</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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</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 Yes <	<ul> <li>trace function</li> </ul>	Yes
motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.  • evaluation of thermistor motor protection • inside-delta circuit • inside-delta circuit • auto-RESET • manual RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook • via software parameterizable • via software configurable • screw terminal • spring-type terminal • PROFlenergy • firmware update  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  • ves  • via software configurable  • yes  • screw terminal • yes  • screw terminal • yes  • screw terminal • yes  • remote reset  Yes  • ves  • via software configurable  • screw terminal • yes	<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	<ul> <li>motor overload protection</li> </ul>	motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta
<ul> <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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul> Yes <ul> <li>yes</li> <li>yes</li> <li>yes</li> </ul> Feature communication modules <ul> <li>Yes</li> </ul>	<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
<ul> <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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> <li>Yes</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	• inside-delta circuit	Yes
<ul> <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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> <li>Yes</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	auto-RESET	Yes
<ul> <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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> </ul>	• manual RESET	Yes
<ul> <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-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul> Yes <ul> <li>Yes</li> <li>Yes</li> <li>Some connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	• remote reset	Yes
<ul> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> </ul> Yes <ul> <li>Yes</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	<ul> <li>communication function</li> </ul>	Yes
<ul> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	<ul> <li>operating measured value display</li> </ul>	Yes
<ul> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	<ul><li>event list</li></ul>	Yes
<ul> <li>via software configurable</li> <li>screw terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	• error logbook	Yes
<ul> <li>screw terminal</li> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>Yes</li> <li>Yes</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	<ul> <li>via software parameterizable</li> </ul>	Yes
<ul> <li>spring-type terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>No</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules</li> <li>Yes</li> </ul>	• via software configurable	Yes
<ul> <li>PROFlenergy</li> <li>Feature communication modules</li> <li>firmware update</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> </ul>	screw terminal	Yes
<ul> <li>PROFlenergy</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules</li> <li>Yes</li> </ul>	spring-type terminal	No
		Yes; in connection with the PROFINET Standard and PROFINET High-
• removable terminal for control circuit  Yes	• firmware update	Yes
	<ul> <li>removable terminal for control circuit</li> </ul>	Yes

<ul><li>voltage ramp</li></ul>	Yes
<ul><li>torque control</li></ul>	Yes
<ul> <li>combined braking</li> </ul>	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
at 40 °C rated value	1 280 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	256 A
• at 50 °C rated value	1 139 A
• at 60 °C rated value	1 030 A
operational current at inside-delta circuit	
at 40 °C rated value	2 217 A
at 50 °C rated value	1 973 A
at 60 °C rated value	1 784 A
operating voltage	
rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
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>	400 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	710 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	710 kW
at 400 V at inside-delta circuit at 40 °C rated value	1 200 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	
<ul> <li>at 40 °C after startup</li> </ul>	384 W
<ul> <li>at 50 °C after startup</li> </ul>	337 W
at 60 °C after startup	275 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	23 279 W
• at 50 °C during startup	19 496 W
at 60 °C during startup	16 778 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	24 V
	0.437
at 60 Hz rated value	24 V
at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative negative tolerance of the control supply	

relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	1 100 mA
locked-rotor current at close of bypass contact maximum	6.7 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
<ul><li>number of digital outputs</li></ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
number of digital outputs not parameterizable	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	0.0
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	3 A 1 A
	TA
Installation/ mounting/ dimensions mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	764 mm
width	478 mm
width	478 mm
width depth	478 mm
width depth required spacing with side-by-side mounting	478 mm 241 mm
width depth required spacing with side-by-side mounting • forwards	478 mm 241 mm
width depth required spacing with side-by-side mounting • forwards • backwards	478 mm 241 mm 10 mm 0 mm
width depth required spacing with side-by-side mounting	478 mm 241 mm  10 mm 0 mm 100 mm
width depth required spacing with side-by-side mounting	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm
width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm
width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 61 kg
width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 61 kg
width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 61 kg  busbar connection screw-type terminals
width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 61 kg
width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  wire length for thermistor connection	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 61 kg  busbar connection screw-type terminals 55 mm
width depth required spacing with side-by-side mounting	478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 61 kg  busbar connection screw-type terminals

• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	20 35 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	177 310 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	, , , , , , , , , , , , , , , , , , , ,
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
adming operation	above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
during operation acc. 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 acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
- dailing diorage doo. to 1EO 00121	not get inside the devices), 1M4
during storage acc. to IEC 60721     during transport acc. to IEC 60721	
	not get inside the devices), 1M4
during transport acc. to IEC 60721	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during transport acc. to IEC 60721  EMC emitted interference	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
• during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes
• during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS  UL/CSA ratings  manufacturer's article number	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse  — usable for Standard Faults up to 575/600 V	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature      EtherNet/IP      Modbus RTU      Modbus TCP      PROFIBUS  UL/CSA ratings  manufacturer's article number      of the fuse	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS  UL/CSA ratings  manufacturer's article number      • of the fuse      — usable for Standard Faults up to 575/600 V according to UL      — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL      — usable for High Faults at inside-delta circuit up to 575/600 V according to UL      — usable for High Faults at inside-delta circuit up to 575/600 V according to UL      operating power [hp] for 3-phase motors      • at 200/208 V at 50 °C rated value      • at 460/480 V at 50 °C rated value      • at 460/480 V at 50 °C rated value      • at 460/480 V at 50 °C rated value      • at 460/480 V at 50 °C rated value      • at 460/480 V at 50 °C rated value      • at 460/480 V at 50 °C rated value	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature      • EtherNet/IP     • Modbus RTU     • Modbus TCP     • PROFIBUS  UL/CSA ratings  manufacturer's article number      • of the fuse      — usable for Standard Faults up to 575/600 V according to UL      — usable for High Faults up to 575/600 V according to UL      — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL      — usable for High Faults at inside-delta circuit up to 575/600 V according to UL      — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors      • at 200/208 V at 50 °C rated value      • at 460/480 V at 50 °C rated value      • at 200/208 V at inside-delta circuit at 50 °C rated value	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Class J / L, max. 3000 A; Iq = 85 kA  Type: Class J / L, max. 3000 A; Iq = 100 kA  Type: Class J / L, max. 3000 A; Iq = 85 kA  Type: Class J / L, max. 3000 A; Iq = 100 kA  400 hp 450 hp 1 000 hp 700 hp
• during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature      • EtherNet/IP     • Modbus RTU     • Modbus TCP     • PROFIBUS  UL/CSA ratings  manufacturer's article number      • of the fuse      — usable for Standard Faults up to 575/600 V according to UL      — usable for High Faults up to 575/600 V according to UL      — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL      — usable for High Faults at inside-delta circuit up to 575/600 V according to UL      — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors      • at 200/208 V at 50 °C rated value      • at 460/480 V at 50 °C rated value      • at 200/208 V at inside-delta circuit at 50 °C rated	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

value	
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	1,000 2000
protection class IP on the front acc. to IEC 60529	IP00
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.0000005 1/h
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 y

Certificates/ approvals

**General Product Approval** 

EMC

For use in hazardous locations













For use in hazardous locations **Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

other





Type Test Certificates/Test Report





Confirmation

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5558-6HA04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5558-6HA04}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-6HA04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5558-6HA04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

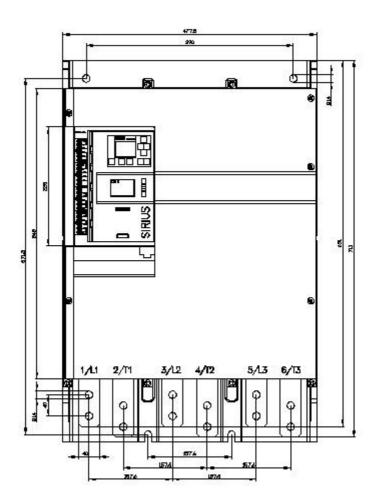
https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-6HA04/char

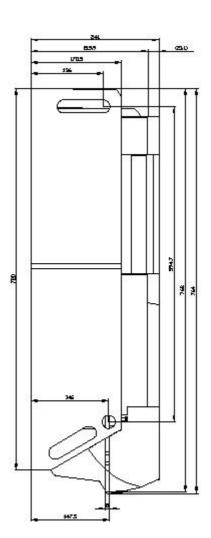
Characteristic: Installation altitude

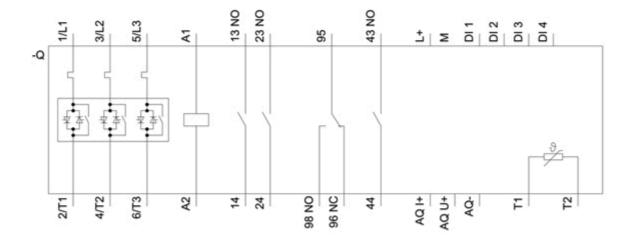
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5558-6HA04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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