## SIEMENS

## Data sheet

## 3RW5072-2TB04



SIRIUS soft starter 200-480 V 210 A, 24 V AC/DC Spring-loaded terminals Thermistor input

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS01</u>
<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 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>	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3VA2440-7MN32-0AA0; Type of assignment 1. lq = 65 kA</u>
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1 230-2; 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>3NE3 333; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1064</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1064</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component is supported	
HMI-Standard	Yes
HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2

trip class         CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2           • for main current cloud:         100 ms           • for control circuit         100 ms           • for control circuit         100 ms           • for control circuit         600 V           • degree of pollution         3, acc. to IEC 60947-4-2           impulse voltage rated value         64V           blocking voltage rated value         64V           service factor         1           surge voltage resistance rated value         64V           • between main and auxilary circuit         660 V           • between main and auxilary circuit         660 V           • bock resistance         15 g/ 11 ms. from 12 g/ 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms. from 12 g/ 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms. from 12 g/ 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms. from 12 g/ 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms. from 12 g/ 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms. from 12 g/ 11 ms with potential contact lifting           vibration resistance         16 g/ 13 46-2           0         23 06 2019 00:00		
• for main current circuit     100 ms     for control circuit     100 ms     insulation voltage rated value     600 V     degree of poliution     insulation voltage rated value     600 V     degree of poliution     impulse voltage rated value     600 V     service factor     1     surge voltage resistance rated value     6 kV     maximum permissible voltage for safe isolation     obetween main and auxilary circuit     for voltage rated value     for voltage resistance     15 g /11 ms, from 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms, from 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms, from 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact lifting     vibration resistance     15 g /11 ms (From 12 g / 11 ms with potential contact     vis a contact is potentian     vis a contact is potentian     vis a contact is potentian     vis a contact with the PROFINET Standard communication     module     vis a contact contact     vis a contact contine     vis a contact contact     vis a contact contact     vis	trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
• of control circuit         100 ms           Insulation variage rated value         600 V           degree of pollution         3, acc to IEC 60947-4-2           Impulse voltage rated value         6 kV           service factor         1           surge voltage or the thyristor maximum         1 600 V           service factor         6 kV           maximum permissible voltage for safe isolation         6 kV           • between main and auxillary circuit         560 V           * shock resistance         15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting           vibration resistance         15 mm to 6 Hz-2 gto 500 Hz           reference code acc: to IEC 61346-2         0           Substance Prohibitance (Date)         23 09 2019 00:000           product function         Yes           • amp-down (soft stop)         Yes           • adjustable current limitation         Yes           • evaluation of themistor motor protection         Yes           • evaluation of themistor motor protection         Yes           • evaluation of themistor motor protection         Yes           • evaluation function         Yes           • evaluation function         Yes           • evaluation of themistor motor protection         Yes <td< td=""><td>buffering time in the event of power failure</td><td></td></td<>	buffering time in the event of power failure	
insulation voltage rated value     600 V       degree of pollution     3, acc to IEC 60947-4-2       impulse voltage rated value     6 kV       blocking voltage of the thyristor maximum     1 800 V       service factor     1       surge voltage or the thyristor maximum     6 kV       maximum permissible voltage for safe isolation     6 kV       ebtween main and auxiliary circuit     600 V       shock resistance     15 g / 11 ms, from 12 g / 11 ms, with potential contact lifting       vibration resistance     15 min to 6 Hz; 2 to 500 Hz       reference code acc, to IEC 81346-2     Q       Substance Prohibitance (Orale)     23 09 2019 00:00:00       product function     Yes       • adjustable current limitation     Yes       • adjustable current limitation     Yes       • motor overload protection     Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Type A PTG or Klixon / Thermoclick       • anora RESET     Yes       • remote reset     Yes; Put mong of the control supply voltage       • communication function     Yes       • vis software configurable     Yes       • vis software parameterizable     No       • vis software parameterizable     No       • voltage ramp     Yes </td <td><ul> <li>for main current circuit</li> </ul></td> <td>100 ms</td>	<ul> <li>for main current circuit</li> </ul>	100 ms
degree of pollution       3, acc. to IEC 60047-4-2         Imputes voltage rated value       6 kV         blocking voltage of the thyristor maximum       1 600 V         service factor       1         surge voltage or setstance rated value       6 kV         maximum permissible voltage for safe isolation       6 kV         • between main and auxiliary circuit       500 V         shock resistance       15 g / 11 ms, thm 12 g / 11 ms with potential contact lifting         vibration resistance       15 g / 11 ms, from 12 g / 11 ms with potential contact lifting         reference code acc. to IEC 81346-2       0         Substance Prohibitance (Date)       23.09.2019 00:00:00         product function       Yes         • ramp-down (soft stop)       Yes         • adjustable current limitation       Yes         • pump ramp down       Yes         • intrinsic device protection       Yes. Full motor protection (thermistor motor protection and electronic motor verifoad protection)         • evaluation of themistor motor protection       Yes. Type A PTC or Kixon / Thermoclick         • endrogook       Yes: (by in conjunction with special accessories)         • vis oftware parameterizable       Yes         • vis oftware parameterizable       Yes         • vis oftware configurable       Yes	<ul> <li>for control circuit</li> </ul>	100 ms
Impulse voltage rated value         6 kV           blocking voltage of the thyristor maximum         1600 V           service factor         1           surge voltage resistance rated value         6 kV           maximum permissible voltage for safe losolation         600 V           shock resistance         15 g / 11 ms, from 12 g / 11 ms with potential contact lifting           vibration resistance         15 m no 6 Hz; 2g to 500 Hz           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         23.00 2019 00:00:00           product function         Yes           • ramp-up (soft starting)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • outor volefad protection         Yes; Type A PTC or Kilxon / Thermoclick           • motor overlada protection         Yes; Type A PTC or Kilxon / Thermoclick           • auto-RESET         Yes           • remote reset         Yes; Only in conjunction with special accessories           • evaluation of thermistor motor protection         Yes; Only in conjunction with special accessories           • error logbook         Yes; Only in conjunction with special accessories           • error logbook         Yes; Ionnenection with the PROFINET Standard communication module	insulation voltage rated value	600 V
blocking voltage of the thyristor maximum       1 400 V         service factor       1         surge voltage resistance rated value       6 kV         maximum permissible voltage for safe isolation       6 kV         shockers main and auxilary circuit       60 V         shockers main and auxilary circuit       60 V         shockers main and auxilary circuit       60 V         whords resistance       15 g / 11 ms, from 12 g / 11 ms with potential contact lifting         vibration resistance       76 min to 6 Hz; 2g to 500 Hz         reference code acc. to IEC 81346-2       Q         Substance Prohibitance (Date)       23.09 2019 00:00:00         product function       Yes         * ramp-down (soft storp)       Yes         • adjustable current limitation       Yes         • pump ramp down       Yes         • motor overload protection       Yes; Type A PTC or Kilxon / Thermoctick         • motor wereload protection       Yes; Type A PTC or Kilxon / Thermoctick         • auto-RESET       Yes         • remoter reset       Yes; Dy turning off the control supply voltage         • communication function       Yes         • via software parameterizable       No         • via software configurable       Yes         • via software param	degree of pollution	3, acc. to IEC 60947-4-2
service factor         1           surge voltage resistance voltage for safe isolation         6 kV           • between main and auxiliary circuit         600 V           shock resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           reference code acc. to IEC 81346-2         Q           Substance Prohibinance (Clast)         22.09 2019 00:00:00           product function         Yes           • anyp-up (soft starting)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • intinsic device protection         Yes           • motor overload protection         Yes           • auto-RESET         Yes           • remote reset         Yes           • operating measured value display         Yes           • via software parameterizable         No           • via software	impulse voltage rated value	6 kV
surge voltage resistance rated value         6 kV           maximum permissible voltage for safe isolation         600 V           shock resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms. from 12 g / 11 ms with potential contact lifting           vibration fitterition         Yes           • soft Torque         Yes           • adjustable current limitation         Yes           • watuation of thermistor motor protection         Yes           • notor overload protection         Yes           • auto-RESET         Yes           • remote reset         Yes           • operating measured value display         Yes; lo onnuction with special accessories           • via software parametrizable <td>blocking voltage of the thyristor maximum</td> <td>1 600 V</td>	blocking voltage of the thyristor maximum	1 600 V
maximum permissible voltage for safe isolation         600 V           • between main and auxiliary circuit         600 V           shock resistance         15 g / 11 ms. from 12 g / 11 ms. with potential contact lifting           vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Clate)         23.09 2019 00:00:00           product function         Yes           • ramp-up (soft starting)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • motor overload protection         Yes           • evaluation of thermistor motor protection         Yes           • endor logbock         Yes           • remotiogbock         Yes           • via software parameterizable         No           • via software parameterizable         No           • via software configurable	service factor	1
between main and auxiliary circuit     600 V      shock resistance     15 g / 11 ms, from 12 g / 11 ms with potential contact lifting     vibration resistance     15 mm to 6 Hz; 2g to 500 Hz      reference code acc. to HEC 81346-2     Q      Substance Prohibitance (Date)     23.09.2019 00:00:00     product function         ramp-up (soft starting)         ramp (soft starting)         ration of protection         res (soft protection         res (soft protection)         res (soft protection)	surge voltage resistance rated value	6 kV
shock resistance         15 g / 11 ms, from 12 g / 11 ms with potential contact lifting           vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         23.09.2019 00:00:00           product function         Yes           • ramp-down (soft stop)         Yes           • soft Torque         Yes           • adjustable current limitation         Yes           • untrois device protection         Yes;           • intrinsic device protection         Yes;           • motor overload protection         Yes;           • evaluation of thermistor motor protection         Yes;           • andu accessories         Yes;           • motor overload protection         Yes;           • evaluation of thermistor motor protection         Yes;           • auto-RESET         Yes;           • remote reset         Yes; Only in conjunction with special accessories           • via software parameterizable         No           • via software configurable         Yes           • PROFlenergy         Yes           • via software configurable         Yes           • via software parameterizable         No           • analog output         No <td>maximum permissible voltage for safe isolation</td> <td></td>	maximum permissible voltage for safe isolation	
vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         23.09.2019 00:00:00           product function         Yes           • ramp-up (soft starting)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • untrinsic device protection         Yes           • notor overload protection         Yes           • adjustable current limitation         Yes           • untor overload protection         Yes           • untor overload protection         Yes           • auto-RESET         Yes           • remotice reset         Yes           • operating measured value display         Yes           • operating measured value display         Yes           • via software parameterizable         No           • via software parameterizable         No           • via software parameterizable         No           • torque control         No           • analog output         Yes           PROFlenergy         Yes           • torque control         No           • at 60 °C rated value         170 A           • a	<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
reference code acc. to IEC 81346-2       Q         Substance Prohibitance (Date)       23.09.2019 00:00:00         product function       Yes         • ramp-up (soft starting)       Yes         • soft Torque       Yes         • adjustable current limitation       Yes         • unit rising down       Yes         • unotor overload protection       Yes; Type A PTC or Klixon / Thermoclick         • auto-RESET       Yes; Only in conjunction with special accessories         • communication function       Yes; Only in conjunction with special accessories         • via software parameterizable       No         • via software parameterizable       No         • via software parameterizable       No         • voltage ramp       Yes         • torque control       No         • analog output       No         • analog output       No         • at 40 °C rated value       210 A         • at 60 °C rated value       170 A	shock resistance	
Substance Prohibitance (Date)         23.09.2019 00:00:00           product function         Yes           • ramp-down (soft stop)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • pump ramp down         Yes           • intrinsic device protection         Yes           • motor overload protection         Yes           • motor overload protection         Yes           • evaluation of thermistor motor protection         Yes           • auto-RESET         Yes           • operating measured value display         Yes           • operating measured value display         Yes           • via software parameterizable         No           • via software parameterizable         No           • via software parameterizable         No           • torgue control         No           • via software parameterizable         No           • torgue control         No           • at 60 °C rated value         210 A           • at 60 °C rated value         166 A           • at 60 °C rated value         166 A           • at 60 °C rated value         10 %           • at 230 V at 40 °C rated value         15 %	vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
product function     Yes       • ramp-up (soft starting)     Yes       • ramp-up (soft starting)     Yes       • Soft Torque     Yes       • Soft Torque     Yes       • adjustable current limitation     Yes       • pump ramp down     Yes       • initrinsic device protection     Yes       • motor overload protection     Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Type A PTC or Klixon / Thermoclick       • auto-RESET     Yes       • manual RESET     Yes       • operating measured value display     Yes; Only in conjunction with special accessories       • operating measured value display     Yes; Only in conjunction with special accessories       • via software parameterizable     No       • via software configurable     Yes       • voltage ramp     Yes       • torque control     No       • analog output     No       • operating divelue     10 A       • at 40 °C rated value     170 A       • operating struct beforence of the operating voltage     -15 %       • rated value     10 %       • at 40 °C rated value     55 kW       • at 40 °C rated value     50 k       • at 40 °C rated value     50 k		Q
• ramp-up (soft starting)       Yes         • ramp-down (soft stop)       Yes         • Soft Torque       Yes         • adjustable current limitation       Yes         • pump ramp down       Yes         • intrinsic device protection       Yes         • motor overload protection       Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of thermistor motor protection       Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of thermistor motor protection       Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of thermistor motor protection       Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of thermistor motor protection       Yes, Full proper AFC or Rilxon / Thermoclick         • auto-RESET       Yes         • remote reset       Yes, Only in conjunction with special accessories         • operating measured value display       Yes, Only in conjunction with special accessories         • via software configurable       Yes         • via software configurable       Yes         • voltage ramp       Yes         • torque control       No         • analog output       No <t< td=""><td>Substance Prohibitance (Date)</td><td>23.09.2019 00:00:00</td></t<>	Substance Prohibitance (Date)	23.09.2019 00:00:00
• ramp-down (soft stop)       Yes         • Soft Torque       Yes         • adjustable current limitation       Yes         • pump ramp down       Yes         • intrinsic device protection       Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of thermistor motor protection       Yes; Type A PTC or Klixon / Thermoclick         • auto-RESET       Yes         • motor overload protection)       Yes; Type A PTC or Klixon / Thermoclick         • auto-RESET       Yes         • emote reset       Yes; Only in conjunction with special accessories         • error logbook       Yes; Only in conjunction with special accessories         • via software configurable       Yes         • via software configurable       Yes         • voltage ramp       Yes         • operating measured value       Yes         • orage control       No         • anatog output       No         PROFlenergy       Yes         • orage output       No         • at 40 °C rated value       210 A         • at 40 °C rated value       170 A         • perating workage       210 A         • at 60 °C rated value       170 A         operating workage       -15 % <td>product function</td> <td></td>	product function	
<ul> <li>Soft Torque</li> <li>Yes</li> <li>adjustable current limitation</li> <li>Yes</li> <li>pump ramp down</li> <li>Yes</li> <li>intrinsic device protection</li> <li>Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)</li> <li>evaluation of thermistor motor protection</li> <li>Yes; Type A PTC or Klixon / Thermoclick</li> <li>auto-RESET</li> <li>remotor erset</li> <li>yes; By turning off the control supply voltage</li> <li>communication function</li> <li>Yes; Only in conjunction with special accessories</li> <li>operating measured value display</li> <li>Yes; Only in conjunction with special accessories</li> <li>via software parameterizable</li> <li>No</li> <li>via software configurable</li> <li>Yes; in connection with the PROFINET Standard communication module</li> <li>voltage ramp</li> <li>Yes</li> <li>remote configurable</li> <li>Ves; in connection with the PROFINET Standard communication module</li> <li>voltage ramp</li> <li>Yes</li> <li>operational current</li> <li>at 60 °C rated value</li> <li>at 20 V at 40 °C rated value</li> <li>by 60 rated value</li> <li>at 20 V at 40 °C rated value</li> <li>by 70 rated value</li> <li>by 70 rated va</li></ul>	<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
• adjustable current limitation       Yes         • pump ramp down       Yes         • intrinsic device protection       Yes         • motor overload protection       Yes         • motor overload protection       Yes         • evaluation of themistor motor protection       Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of themistor motor protection       Yes; Type A PTC or Klixon / Thermoclick         • auto-RESET       Yes         • manual REST       Yes         • operating measured value display       Yes; By turning off the control supply voltage         • operating measured value display       Yes; Only in conjunction with special accessories         • error logbook       Yes; In connection with special accessories         • via software parameterizable       No         • via software configurable       Yes         • voltage ramp       Yes         • orage output       No         Power Electronics       No         operating lournet       10 A         • at 60 °C rated value       186 A         • at 60 °C rated value       10 A         • at 60 °C rated value       10 %         • at 20 V at 40 °C rated value       55 kW         • at 20 V at 40 °C rated va	<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
• pump ramp downYes• intrinsic device protectionYes• motor overload protectionYes• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection))• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronics210 A• at 60 °C rated value210 A• at 60 °C rated value200 480 V• relative negative tolerance of the operating voltage-15 %• relative negative tolerance of the operating voltage-15 %• at 400 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value50 Hz• operating frequency 1 rated value60 Hz• relative negative tolerance of the operating frequency-10 %	Soft Torque	Yes
• intrinsic device protection         Yes           • motor overload protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • auto-RESET         Yes           • manual RESET         Yes; By turning off the control supply voltage           • communication function         Yes; Only in conjunction with special accessories           • error logbook         Yes; Only in conjunction with special accessories           • via software parameterizable         No           • via software configurable         Yes           • voltage ramp         Yes           • voltage ramp         Yes           • torque control         No           • analog output         No           • at 40 °C rated value         210 A           • at 60 °C rated value         186 A           • at 60 °C rated value         100 %           • rated value         200 480 V           • rated value         55 KW           • at 40 °C rated value         55 KW           • at 40 °C rated value         50 KZ           • at 40 °C rated value         60 HZ           • rated value         55 KW           • at 40	<ul> <li>adjustable current limitation</li> </ul>	Yes
• motor overload protection       Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of thermistor motor protection       Yes; Type A PTC or Klixon / Thermoclick         • auto-RESET       Yes         • manual RESET       Yes         • ernote reset       Yes; By turning off the control supply voltage         • communication function       Yes;         • operating measured value display       Yes; Only in conjunction with special accessories         • via software parameterizable       No         • via software configurable       Yes;         • voltage ramp       Yes         • lorque control       No         • analog output       No         Power Electronics       210 A         • at 50 °C rated value       210 A         • at 60 °C rated value       200 480 V         • relative negative tolerance of the operating voltage       -15 %         • at 20 °C rated value       55 kW         • at 20 °C rated value       55 kW         • at 20 °C rated value       50 Hz         • operating frequency 1 rated value       60 Hz         • parting frequency 1 rated value       60 Hz	<ul> <li>pump ramp down</li> </ul>	Yes
motor overload protection)     motor overload protection)       • evaluation of thermistor motor protection     Yes; Type A PTC or Klixon / Thermoclick       • auto-RESET     Yes       • manual RESET     Yes       • remote reset     Yes; By turning off the control supply voltage       • communication function     Yes;       • operating measured value display     Yes; Only in conjunction with special accessories       • via software parameterizable     No       • via software configurable     Yes       • voltage ramp     Yes       • torque control     No       • analog output     No       Power Electronics     module       • at 40 °C rated value     210 A       • at 60 °C rated value     170 A       • at 60 °C rated value     10 %       • at 60 °C rated value     10 %       • at 230 V at 40 °C rated value     55 kW       • at 40 °C rated value     60 Hz       • at 40 °C rated value     55 kW	<ul> <li>intrinsic device protection</li> </ul>	Yes
• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Conly in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsYes• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value200 480 V• relative negative tolerance of the operating voltage-15 %• relative positive tolerance of the operating voltage-15 %• at 200 V at 40 °C rated value55 kW• at 40 °C rated value0%• at 200 V at 40 °C rated value60 Hz• at 200 V at 40 °C rated value60 Hz• at 200 V at 40 °C rated value60 Hz	<ul> <li>motor overload protection</li> </ul>	
• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; only in conjunction with special accessories• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsYes• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 A• relative negative tolerance of the operating voltage-15 %• relative negative tolerance of the operating voltage10 %• operating frequency 1 rated value50 Hz• at 40 °C rated value50 Hz• at 40 °C rated value00 %• at 20 V at 40 °C rated value60 Hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value60 Hz	<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• remote resetYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsYes• of C rated value210 A• at 40 °C rated value186 A• at 50 °C rated value200 480 V• relative negative tolerance of the operating voltage10 %• operating power for 3-phase motors10 %• at 20 V at 40 °C rated value55 kW• at 40 V at 40 °C rated value50 hz• at 40 V at 40 °C rated value60 Hz• at 40 V at 40 °C rated value50 hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value60 Hz	auto-RESET	Yes
• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsYes• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value200 480 V• rated value200 480 V• rated value0%• at 30 V at 40 °C rated value10 %• at 40 °C rated value10 %• at 40 °C rated value10 %• at 40 °C rated value55 kW• at 40 °C rated value50 kL• at 40 °C r	manual RESET	Yes
• operating measured value display       Yes; Only in conjunction with special accessories         • error logbook       Yes; Only in conjunction with special accessories         • via software parameterizable       No         • via software configurable       Yes;         • PROFlenergy       Yes; in connection with the PROFINET Standard communication module         • voltage ramp       Yes;         • torque control       No         • analog output       No         Power Electronics       Power Electronics         operating voltage       100 A         • at 40 °C rated value       186 A         • at 60 °C rated value       170 A         operating power for 3-phase motors       -15 %         • at 200 V at 40 °C rated value       10 %         operating roquery 1 rated value       55 kW         • at 40 °C rated value       50 Hz         Operating frequency 1 rated value       50 Hz         Operating frequency 1 rated value       60 Hz         • at 40 °C rated value       50 Hz	remote reset	Yes; By turning off the control supply voltage
• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsPower Electronicsoperational current • at 40 °C rated value210 A• at 60 °C rated value186 A• at 60 °C rated value170 Aoperating voltage • rated value-15 %relative negative tolerance of the operating voltage • at 40 °C rated value10 %operating power for 3-phase motors • at 40 °C rated value55 kW• at 40 °C rated value110 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz• relative negative tolerance of the operating frequency • rol 60 Hz-10 %	<ul> <li>communication function</li> </ul>	Yes
• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronicsoperational current • at 40 °C rated value210 A• at 60 °C rated value186 A• at 60 °C rated value170 Aoperating voltage • rated value200 480 Vrelative negative tolerance of the operating voltage-15 %• at 230 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value50 HzOperating frequency 1 rated value50 Hz• at 400 V at 40 °C rated value50 Hz• at 400 V at 40 °C rated value110 kWOperating frequency 2 rated value50 Hz• at 400 V at 40 °C rated value50 Hz• at 400 V at 40 °C rated value50 Hz• at 20 V at 40 regative tolerance of the operating frequency-10 %	<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsOperational current at 40 °C rated value• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 A• perating voltage • rated value-15 %• relative negative tolerance of the operating voltage-15 %• at 230 V at 40 °C rated value100 %• at 400 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value50 Hz• operating frequency 1 rated value50 Hz• operating frequency 2 rated value60 Hz• relative negative tolerance of the operating frequency-10 %	error logbook	Yes; Only in conjunction with special accessories
• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronicsoperational current210 A• at 40 °C rated value186 A• at 60 °C rated value170 A• at 60 °C rated value200 480 Vrelative negative tolerance of the operating voltage-15 %• at 230 V at 40 °C rated value10 %operating power for 3-phase motors-15 %• at 230 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value50 HzOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz- relative negative tolerance of the operating frequency-10 %	<ul> <li>via software parameterizable</li> </ul>	No
wodule       • voltage ramp       • torque control       • torque control       • analog output       No       Power Electronics       operational current       • at 40 °C rated value       • at 50 °C rated value       186 A       • at 60 °C rated value       170 A       operating voltage       • rated value       200 480 V       relative negative tolerance of the operating voltage       10 %       operating power for 3-phase motors       • at 400 V at 40 °C rated value       55 kW       • at 400 V at 40 °C rated value       60 Hz       relative negative tolerance of the operating frequency       -10 %	<ul> <li>via software configurable</li> </ul>	Yes
• torque controlNo• analog outputNoPower Electronicsoperational current210 A• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value200 480 V• rated value200 480 Vrelative negative tolerance of the operating voltage10 %operating power for 3-phase motors110 kW• at 400 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value60 Hzoperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %	PROFlenergy	·
• analog outputNoPower Electronicsoperational current210 A• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 Aoperating voltage200 480 V• rated value200 480 Vrelative negative tolerance of the operating voltage10 %operating power for 3-phase motors55 kW• at 230 V at 40 °C rated value110 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %	<ul> <li>voltage ramp</li> </ul>	Yes
Power Electronics         operational current         • at 40 °C rated value         • at 50 °C rated value         • at 60 °C rated value         • at 60 °C rated value         • at 60 °C rated value         • rated value         • rated value         • rated value         • rated value         200 480 V         relative negative tolerance of the operating voltage         • relative positive tolerance of the operating voltage         10 %         operating power for 3-phase motors         • at 230 V at 40 °C rated value         55 kW         • at 400 V at 40 °C rated value         50 Hz         Operating frequency 1 rated value         60 Hz         relative negative tolerance of the operating frequency	torque control	No
operational current210 A• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 Aoperating voltage200 480 V• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors55 kW• at 230 V at 40 °C rated value110 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %		No
• at 40 °C rated value210 A• at 50 °C rated value186 A• at 60 °C rated value170 Aoperating voltage200 480 V• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors-• at 230 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value50 HzOperating frequency 1 rated value60 Hzrelative negative tolerance of the operating frequency-10 %	Power Electronics	
<ul> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>operating voltage</li> <li>rated value</li> <li>200 480 V</li> <li>relative negative tolerance of the operating voltage</li> <li>-15 %</li> <li>relative positive tolerance of the operating voltage</li> <li>10 %</li> <li>operating power for 3-phase motors</li> <li>at 230 V at 40 °C rated value</li> <li>55 kW</li> <li>at 400 V at 40 °C rated value</li> <li>110 kW</li> <li>Operating frequency 1 rated value</li> <li>50 Hz</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>-10 %</li> </ul>	operational current	
• at 60 °C rated value170 Aoperating voltage200 480 V• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors-• at 230 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value110 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %	<ul> <li>at 40 °C rated value</li> </ul>	210 A
operating voltage• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors	• at 50 °C rated value	186 A
• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors	• at 60 °C rated value	170 A
relative negative tolerance of the operating voltage       -15 %         relative positive tolerance of the operating voltage       10 %         operating power for 3-phase motors       10 %         • at 230 V at 40 °C rated value       55 kW         • at 400 V at 40 °C rated value       110 kW         Operating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       60 Hz         relative negative tolerance of the operating frequency       -10 %	operating voltage	
relative positive tolerance of the operating voltage10 %operating power for 3-phase motors		
operating power for 3-phase motors• at 230 V at 40 °C rated value55 kW• at 400 V at 40 °C rated value110 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %		
• at 230 V at 40 °C rated value       55 kW         • at 400 V at 40 °C rated value       110 kW         Operating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       60 Hz         relative negative tolerance of the operating frequency       -10 %		10 %
• at 400 V at 40 °C rated value110 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %		
Operating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %		
Operating frequency 2 rated value     60 Hz       relative negative tolerance of the operating frequency     -10 %		
relative negative tolerance of the operating frequency -10 %		
relative positive tolerance of the operating frequency 10 %		10 %
adjustable motor current	-	
at rotary coding switch on switch position 1     90 A		
at rotary coding switch on switch position 2     98 A		
• at rotary coding switch on switch position 3 106 A	<ul> <li>at rotary coding switch on switch position 3</li> </ul>	106 A

<ul> <li>at rotary coding switch on switch position 4</li> </ul>	114 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	122 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	130 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	138 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	146 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	154 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	162 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	170 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	178 A
<ul> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> </ul>	186 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	194 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	202 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	210 A
minimum	90 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	16 W
• at 50 °C after startup	13 W
• at 60 °C after startup	11 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 237 W
• at 50 °C during startup	1 867 W
• at 60 °C during startup	1 637 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	Acide
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V 24 V
relative negative tolerance of the control supply	-20 %
voltage at AC at 50 Hz	-20 /0
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
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	160 mA
holding current in bypass operation rated value	490 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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 lights for themistor connection         1: Type A PTC or Klixon / Thermoclick           number of alight autguts         2           elight autguts version         2           and the stable of the relay outguts         0           et A C-15 at 24 V relad value         1 A           et A C-15 at 24 V relad value         1 A           stablishiof, mounting dimensions         with vertical mounting surface +(0° rotatable with vertical mounting surface +(0° r		
number of digital outputs         3           into parametrizable         2           digital output version         2           rumber of analog outputs         0           witching capacity surverial of the roley outputs         3 A           i at AC-15 at 250 V rated value         3 A           i at AC-15 at 250 V rated value         3 A           i at AC-15 at 250 V rated value         1 A           instaining method         surverse           fastening method         screw fxing           height         230 mm           versit         10 mm           obadwards         0 mm           i badwards         0 mm           i broweight without packaging         73 kg           connections         5 mm           weight without packaging         73 kg           i for main contacts for box terminal usi	number of digital inputs	1
• not parameterizable         2           digital output version         2           control of analog outputs         0           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at AC-16 at 250 V rated value         3 A           • at the side         7 mm           • for anato contection a	· · · · · · · · · · · · · · · · · · ·	
digital subject version       2 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       0         extrching capacity userver of the relay outputs       3 A         extrching capacity userver of the relay outputs       3 A         extrching capacity userver of the relay outputs       3 A         it also 21 at 24 V trade value       1 A         Installatory mounting fullowing control of the relay outputs       3 A         mounting position       with vertical mounting surface +2.60° roltable, with vertical mounting sur		
number of analog outputs         0           switching capacity current of the relay outputs         3 A           • at AC-15 at 25 UV rated value         3 A           • at AC-15 at 25 UV rated value         1 A           mounting position         with vertical mounting surface +-00" rotatable, with vertical mounting surface +-22.5" tittable to the front and back.           fastening method         screw toxing           height         282 mm           required spacing with side-by-side mounting         accounting surface +-22.5" tittable to the front and back.           • backwards         0 mm           • backwards         00 mm           • at the side         5 mm           viewight without packaging         7.3 kg           Connectional Terminals         50 m           view conductor cross-section = 0.5 mm <sup>4</sup> maximum         45 mm           • of ront crout         spring-loaded terminals           width conductor cross-section = 0.5 mm <sup>4</sup> maximum         50 m           • of ront cortacts for box terminal using the front clamping point finely standed without cree end processing         95 300 mm <sup>2</sup> • of ront contacts for box terminal using the front clamping point finely standed without cree end processing         95 300 mm <sup>2</sup> • of ront contacts for box terminal using the front clamping point finely standed without cree end processing		
switching capacity current of the relay outputs         3 A           • at AC-15 at 250 V rated value         1 A           Installation/mounting/dimensions         1 A           mounting position         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90°		
		0
• at DC-13 at 24 V rated value     1 A       Installation/mounting/dimensions     with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatab		
Installation/ mounting/ dimensions         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable conductor coss-sections = 0.5 mm² maximum = 50 m = 0.5 mm² maximum = 50 m = 0.5 mm² maximum = 50 m = 0.5 mm² maximum = 250 m = 0.5 mm² maximum = 0.5 mm³ maxi contacts for box terminal using the front clamping poio		
mounting position         with vertical mounting surface +7-30° rotatable, with vertical mounting surface +7-30° rotatable, with vertical mounting surface +7-32.5° tillable to the front and back.           festening method         screw fixing           height         230 mm           width         160 mm           depth         282 mm           required spacing with side-by-side mounting         10 mm           obsciverds         0 mm           upwards         10 mm           odownwards         75 mm           etable side         5 mm           weight without packaging         7.3 kg           Connectional for thermistor connection         busbar connection           of main current circuit         busbar connection           with conductor cross-section = 0.5 mm² maximum         50 m           with conductor cross-section = 1.5 mm² maximum         50 m           of main contacts for box terminal using the front champing point finely stranded without core end processing         60 rm         70 240 mm²           of main contacts for box terminal using the front champing point stinely stranded without core end processing         95 300 mm²         300 600 kcmil           or main contacts for box terminal using the front champing point stinely stranded without core end processing         60 rm ain contacts for box terminal using the back champing point <td>• at DC-13 at 24 V rated value</td> <td>1 A</td>	• at DC-13 at 24 V rated value	1 A
surface +/- 22.5" tiltable to the front and back           height         230 mm           width         160 mm           depth         282 mm           required spacing with side-by-side mounting         10 mm           • forwards         0 mm           • backwards         0 mm           • upwards         10 mm           • downwards         75 mm           • downwards         75 mm           • downwards         73 kg           Connection bar maximum         45 mm           • for main current circuit         busbar connection           • for main contacts for box terminal using the front charping point finely stranded with cur cer ed processing         250 m           • for main contacts for box terminal using the front charping point finely stranded with cur cer ed processing         95 300 mm²           • for main contacts for box terminal using the front charping point finely stranded with cure ed processing         95 300 mm²           • for main contacts for box terminal using the front charping point finely stranded with cure ed processing         95 300 mm²           • for main contacts for box terminal using the front charping point finely stranded with cure ed processing         95 300 mm²           • for main contacts for box terminal using the front charping point sineld         120 240 mm²           • at AWG cable	Installation/ mounting/ dimensions	
height         230 mm           width         160 mm           depth         282 mm           required spacing with side-by-side mounting         0 mm           • forwards         0 mm           • backwards         0 mm           • downwards         10 mm           • downwards         75 mm           • at the side         5 mm           • downwards         75 mm           • at the side         5 mm <b>Connection Forminals</b> 5 mm <b>type of electrical connection</b> 5 mm           • for main current circuit         bubbar connection symg-loaded terminals           with conductor cross-section = 0.5 mm* maximum         50 m           • with conductor cross-section = 0.5 mm* maximum         50 m           • for main contacts for box terminal using the front champing point sinde         95 300 mm²           • for main contacts for box terminal using the front champing point sinded with core end processing         95 300 mm²           • for main contacts for box terminal using the front champing point sinded with core end processing         95 300 mm²           • for main contacts for box terminal using the front champing point sinded with core end processing         95 300 mm²           • for main contacts for box terminal using the back champing point sinded <th>mounting position</th> <th></th>	mounting position	
width       160 mm         depth       282 mm         required spacing with side-by-side mounting       10 mm         • forwards       0 mm         • backwards       0 mm         • upwards       100 mm         • downwards       0 mm         • at the side       5 mm         weight without packaging       7.3 kg         Connectional Terminals       busbar connection         weight without packaging       7.3 kg         Connectional Terminals       busbar connection spring-loaded terminals         width of connection and conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum       50 m         • for main contacts for box terminal using the font clamping point finely stranded with core end processing       95 300 mm <sup>2</sup> • for main contacts for box terminal using the font clamping point sold       95 300 mm <sup>2</sup> • at AWG cables for main contacts for box terminal using the back clamping point       95 300 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point finely stranded without cor	fastening method	screw fixing
depth       282 mm         required spacing with side-by-side mounting       10 mm         • forwards       0 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm <b>Weight without packaging</b> 7.3 kg <b>Connection Terminals</b> 50 mm         wight without packaging       50 m         for rain current circuit       busbar connection         • for main current circuit       busbar connection         • 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         • 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 main contacts for box terminal using the front champing point finely stranded with core end processing       50 m.         • for main contacts for box terminal using the front champing point finely stranded with core end processing       70 240 mm <sup>2</sup> • for main contacts for box terminal using the back champing point       300 600 kcmil         using the front clamping point       50 m 500 kcmil         •	height	230 mm
required spacing with side-by-side mounting     10 mm       • forwards     00 mm       • backwards     00 mm       • upwards     100 mm       • downwards     75 mm       • at the side     5 mm <b>Connections/Terminals type of electrical connection</b> • for nain current circuit     busbar connection       • for control circuit     busbar connection       • for control circuit     busbar connection       • with conductor cross-section = 0.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 1.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 0.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 0.5 mm <sup>2</sup> maximum     50 m       • for main contacts for box terminal using the front clamping point fiely stranded with core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point sold     70 240 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point sold     30 600 kcmil       • for main contacts for box terminal using the back clamping point sold     30 240 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point sold     30 240 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point sold     30 240 mm <sup>2</sup> • for main contacts for box terminal using back clamping point sold     30 200 k	width	160 mm
• forwards     10 mm       • backwards     0 mm       • upwards     00 mm       • downwards     75 mm       • at the side     5 mm       • weight withwut packaging     7.3 kg       Connections/ Torminals     73 kg       type of electrical connection     busbar connection       • for main current circuit     busbar connection       • with conductor cross-section = 0.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 1.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 1.5 mm <sup>2</sup> maximum     50 m       • of or main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point     95 300 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point     95 300 kcmil       • at AWG cables for main contacts for box terminal using the back clamping point     95 300 kcmil       • at AWG cables for main contacts for box terminal usi	depth	282 mm
• backwards     0 mm       • upwards     100 mm       • downwards     75 mm       • at the side     5 mm       • at the side     5 mm       • at the side     5 mm       • or main current circuit     busbar connection       • for main current circuit     busbar connection       • for control circuit     busbar connection       • with conductor cross-section = 0.5 mm <sup>2</sup> maximum     45 mm       • with conductor cross-section = 1.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 2.5 mm <sup>2</sup> maximum     50 m       • or main contacts for box terminal using the front clamping point stranded withour core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point stranded     70 240 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point stranded     300 600 kcmil       using the back clamping point     250 500 kcmil       • at AWG cables for main contacts for box terminal using the front clamping points stranded     250 500 kcmil       • at AWG cables for main contacts for box terminal using the back clamping points     250 500 kcmil       • for main contacts for box terminal using both clamping points finely stranded without core end processing     250 500 kcmil	required spacing with side-by-side mounting	
• upwards     100 mm       • downwards     75 mm       • at the side     5 mm       weight without packaging     7.3 kg       Connections/Terminals     5 mm       type of electrical connection     • for main current circuit       • for main 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 = 2.5 mm <sup>2</sup> maximum     50 m       • with conductor cross-section = 2.5 mm <sup>2</sup> maximum     50 m       • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point stold     70 240 mm <sup>2</sup> • at AWG cables for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping points finely stranded without core end processing     95 240 mm <sup>2</sup> • for main contacts for box terminal using the back clamping points     120 240 mm <sup>2</sup> • at AWG cables for main contacts for box terminal using the back clamping points     120 240 mm <sup>2</sup> • for main contacts for box terminal using b	<ul> <li>forwards</li> </ul>	10 mm
• downwards     75 mm       • at the side     5 mm       weight without packaging     7.3 kg       Connections/Terminals     75 mm       type of electrical connection     6 m control circuit       • for main current circuit     busbar connection       • for control circuit     spring-loaded terminals       width of connection bar maximum     45 mm       • with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 2.6 mm² maximum     250 m       • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm²       • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm²       • for main contacts for box terminal using the front clamping point finely stranded without core end processing     95 300 mm²       • for main contacts for box terminal using the front clamping point sold     30 600 kcmil       • at AWG cables for main contacts for box terminal using the back clamping points finely stranded without core end processing     250 500 kcmil       • for main contacts for box terminal using both clamping points finely stranded without core end processing     95 300 mm²       • at AWG cables for main contacts for box terminal using both clamping points finely stranded without core end processing     95 300 mm²       • for main contacts for box terminal using both clamping points finely s	<ul> <li>backwards</li> </ul>	0 mm
• at the side       5 mm         weight without packaging       7.3 kg         Connections/Terminals       5 mm         type of electrical connection       busbar connection         • for main current circuit       busbar connection         • with conductor cross-section = 0.5 mm² maximum       45 mm         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • of main contacts for box terminal using the front clarming point fiely stranded with core end processing       95 300 mm²         • for main contacts for box terminal using the front clarming point fiely stranded with core end processing       70 240 mm²         • for main contacts for box terminal using the front clarming point       300 600 kcmil         • at AWG cables for main contacts for box terminal using the back clarming point fiely stranded without core end processing       250 500 kcmil         • for main contacts for box terminal using beb back clarming point sliely stranded without core end processing       300 600 kcmil         • at AWG cables for main contacts for box terminal using bbf clarming points finely stranded with core end processing		
weight without packaging     7.3 kg       Connections/Terminals       type of electrical connection       • for main current circuit       • for control circuit       with of connection bar maximum       • with conductor cross-section = 0.5 mm² maximum       • with conductor cross-section = 1.5 mm² maximum       • with conductor cross-section = 2.5 mm² maximum       • with conductor cross-section = 2.5 mm² maximum       • with conductor cross-section = 2.5 mm² maximum       • for main contacts for box terminal using the front clamping point finely stranded without core end processing       • for main contacts for box terminal using the front clamping point stranded       • at AWG cables for main contacts for box terminal using the bront clamping point solid       • at AWG cables for main contacts for box terminal using the bront clamping point solid       • for main contacts for box terminal using the bront clamping point solid       • for main contacts for box terminal using the bront clamping point solid       • for main contacts for box terminal using the back clamping points solid       • at AWG cables for main contacts for box terminal using the back clamping points finely stranded with core end processing       • for main contacts for box terminal using the back clamping points finely stranded with core end processing       • for main contacts for box terminal using both clamping points finely stranded with core end processing       • for main contacts for box terminal using both clamping points finely stranded with core end p		
Connections/ Terminals         type of electrical connection         • for main current circuit         • bit control circuit         width of connection bar maximum         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • for main contacts for box terminal using the front clamping point finely stranded with core end processing         • for main contacts for box terminal using the front clamping point finely stranded with core end processing         • for main contacts for box terminal using the front clamping point stranded         • at AWG cables for main contacts for box terminal using the back clamping point solid         • for main contacts for box terminal using both clamping point solid         • for main contacts for box terminal using both clamping point solid         • for main contacts for box terminal using both clamping point solid         • for main contacts for box terminal using both clamping point solid         • for main contacts for box terminal using both clamping point solid         • for main contacts for box terminal using both clamping points finely stranded without core end processing         • for main contacts for bo		
type of electrical connection <ul> <li>for rain current circuit</li> <li>busbar connection</li> <li>gring-loaded terminals</li> <li>with connection bar maximum</li> <li>45 mm</li> </ul> with connection cross-section = 0.5 mm² maximum       45 mm         with conductor cross-section = 1.5 mm² maximum       50 m         with conductor cross-section = 1.5 mm² maximum       150 m         with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       95 300 mm²         of rmain contacts for box terminal using the front clamping point finely stranded with core end processing       95 300 mm²         or orain contacts for box terminal using the front clamping point stranded       70 240 mm²         at AWG cables for main contacts for box terminal using the front clamping point solid       300 600 kcmil         at AWG cables for main contacts for box terminal using the front clamping point solid       300 600 kcmil         at AWG cables for main contacts for box terminal using beth clamping point solid       120 240 mm²         or main contacts for box terminal using both clamping points finely stranded with core end processing       95 300 mm²         or orain contacts for box terminal using both clamping points finely stranded with core end processing       120 240 mm²         or or main contacts for box terminal using both clamping points finely stranded without	weight without packaging	7.3 kg
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded</li> <li>of main contacts for box terminal using the back clamping point solid</li> <li>for main contacts for box terminal using the back clamping point solid</li> <li>of main contacts for box terminal using beth clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box t</li></ul>	Connections/ Terminals	
• for control circuit       spring-loaded terminals         widt of connection bar maximum       45 mm         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • for main contacts for box terminal using the front clamping point finely stranded without core end processing       95 300 mm²         • for main contacts for box terminal using the front clamping point finely stranded without core end processing       95 300 mm²         • for main contacts for box terminal using the front clamping point finely stranded without core end processing       95 300 mm²         • for main contacts for box terminal using the front clamping point solid       95 300 mm²         • of main contacts for box terminal using the front clamping point solid       95 300 mm²         • at AWG cables for main contacts for box terminal using the back clamping point solid       30 600 kcmil         • at AWG cables for main contacts for box terminal using both clamping points finely stranded without core end processing       250 500 kcmil         • for main contacts for box terminal using both clamping points finely stranded without core end processing       min. 2x 70 mm³, max. 2x 240 mm²         • for main contacts for box terminal using both clamping points finely stranded without core end processing       min. 2x 50 mm³, max. 2x 240 mm²         •	type of electrical connection	
width of connection bar maximum       45 mm         wire length for thermistor connection       45 mm         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         with conductor cross-sections       50 m         • for main contacts for box terminal using the front clamping point finely stranded without core end processing       95 300 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point finely stranded without core end processing       70 240 mm <sup>2</sup> • for main contacts for box terminal using the front clamping point stranded       70 240 mm <sup>2</sup> • at AWG cables for main contacts for box terminal using the front clamping point stranded       3/0 600 kcmil         • at AWG cables for main contacts for box terminal using beth clamping point solid       3/0 600 kcmil         • at AWG cables for main contacts for box terminal using both clamping points finely stranded with core end processing       250 500 kcmil         • for main contacts for box terminal using both clamping points finely stranded with core end processing       3/0 240 mm <sup>2</sup> • for main contacts for box terminal using both clamping points finely stranded with core end processing       250 500 kcmil         • for main contacts for box terminal using both clamping points finely stranded with core end processing<	<ul> <li>for main current circuit</li> </ul>	busbar connection
wire length for thermistor connection• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• for main contacts for box terminal using the front clamping point finely stranded with core end processing95 300 mm²• for main contacts for box terminal using the front clamping point finely stranded without core end processing95 300 mm²• for main contacts for box terminal using the front clamping point stranded70 240 mm²• at AWG cables for main contacts for box terminal using the front clamping point stolid95 300 mm²• for main contacts for box terminal using the back clamping point stolid30 600 kcmil• for main contacts for box terminal using the back clamping point solid250 500 kcmil• for main contacts for box terminal using both clamping points finely stranded with core end processing250 500 kcmil• for main contacts for box terminal using both clamping points finely stranded with core end processing250 500 kcmil• for main contacts for box terminal using both clamping points finely stranded with core end processingmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points finely stranded without core end processingmin. 2x 70 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points finely stranded without core end processingmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points finely stranded without core	for control circuit	spring-loaded terminals
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the foot clamping point solid</li> <li>at AWG cables for main contacts for box terminal using the back clamping point solid</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points stranded</li> <li>for main contacts for box terminal using both clamping points stranded</li> <li>for main contacts for box terminal using both clamping point stranded</li> <li>for main contacts for box terminal using both clamping point stranded</li> <li>for main contacts for box terminal using both clamping point stranded</li> <li>for main contacts for box terminal using both clamping point stranded</li></ul>	width of connection bar maximum	45 mm
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point stranded</li> <li>at AWG cables for main contacts for box terminal using the back clamping point solid</li> <li>at AWG cables for main contacts for box terminal using the back clamping point solid</li> <li>at AWG cables for main contacts for box terminal using both clamping point solid</li> <li>for main contacts for box terminal using both clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the back clamping point solid</li> <li>for main contacts for box terminal using both clamping point solid</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points stranded</li> <li>for main contacts for box terminal using both clamping points stranded</li> <li>for main contacts for box terminal using both clamping points stranded</li> <li>for main contacts for box terminal using both clamping point stranded</li> <li>for main contacts for box terminal using both clamping point stranded</li> <li>for main contacts for box terminal using both clamping point s</li></ul>	wire length for thermistor connection	
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<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point stranded</li> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> <li>for main contacts for box terminal using the back clamping point</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded withcore end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded withcore end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded withcore end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded withcore end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded withcore end processing</li> <li>for main</li></ul>	<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m
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using the back clamping pointmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points solidmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points finely stranded without core end processingmin. 2x 50 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points finely stranded without core end processingmin. 2x 50 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points strandedmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points strandedmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points strandedmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points strandedmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points strandedmin. 2x 70 mm², max. 2x 240 mm²	clamping point solid	120 240 mm²
clamping points solidmin. 2x 50 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points finely stranded without core end processingmin. 2x 50 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points finely stranded without core end processingmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points strandedmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using the back120 185 mm²		250 500 kcmil
clamping points finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²• for main contacts for box terminal using both clamping points finely stranded without core end processingmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using both clamping points strandedmin. 2x 70 mm², max. 2x 240 mm²• for main contacts for box terminal using the back120 185 mm²		min. 2x 70 mm², max. 2x 240 mm²
clamping points finely stranded without core end processing       interval         o for main contacts for box terminal using both clamping points stranded       min. 2x 70 mm², max. 2x 240 mm²         o for main contacts for box terminal using the back       120 185 mm²	clamping points finely stranded with core end	min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>clamping points stranded</li> <li>for main contacts for box terminal using the back</li> <li>120 185 mm<sup>2</sup></li> </ul>	clamping points finely stranded without core end	min. 2x 50 mm², max. 2x 185 mm²
		min. 2x 70 mm², max. 2x 240 mm²
processing	clamping point finely stranded with core end	120 185 mm²

<ul> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> </ul>	120 185 mm²
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	120 240 mm²
type of connectable conductor cross-sections	
<ul> <li>at AWG cables for main current circuit solid</li> </ul>	2/0 500 kcmil
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	50 240 mm²
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	70 240 mm <sup>2</sup>
	70 240 mm
type of connectable conductor cross-sections	0 (0.05
for control circuit solid	2x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
at AWG cables for control circuit finely stranded with core end processing	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see manual
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
<ul> <li>during operation acc. to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport acc. 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
• 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 High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
<ul> <li>of the fuse</li> </ul>	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class L, max. 700 A; lq = 10 kA
<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class L, max. 700 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	60 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	60 hp
• at 460/480 V at 50 °C rated value	150 hp

afety related data protection class IP on the front acc. to IEC 60529	0 100	0: IP20 with cover		
1		0; IP20 with cover	to at from the front with	
touch protection on the front acc. to IEC 60529	Ting	er-sate, for vertical cor	ntact from the front with o	cover
TEX	_			
certificate of suitability				
• ATEX	Yes			
• IECEx	Yes	3		
hardware fault tolerance acc. to IEC 61508 relatin ATEX	ng to 0			
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.0	9		
PFHD with high demand rate acc. to EN 62061 re to ATEX	elating 0.0	00009 1/h		
Safety Integrity Level (SIL) acc. to IEC 61508 rela to ATEX	ating SIL	1		
T1 value for proof test interval or service life acc IEC 61508 relating to ATEX	c. to 3 y			
ertificates/ approvals				
General Product Approval			For use in hazardo	ous locations
	(ŲL)	EAC	KEx ATEX	IECEX IECEX
	(UL) UL	EHC	KEx ATEX	IECEx
Declaration of Conformity Test	UL UL	ERC	<u>Ex</u> ATEX	IECEx
Miscellaneous Type	Certificates	<b>ERE</b> other <u>Confirmation</u>	ATEX	IECEx
Miscellaneous Type ates EG-Konf.	e Test Certific- s/Test Report		ATEX	IECEx
Miscellaneous Type ates EG-Konf. Unther information Information- and Downloadcenter (Catalogs, Bro https://www.siemens.com/ic10 Industry Mall (Online ordering system)	<u>e Test Certific-</u> s/Test Report	Confirmation	ATEX	IECEx
Miscellaneous Type ates EG-Konf. urther information Information- and Downloadcenter (Catalogs, Bro https://www.siemens.com/ic10	<u>e Test Certific-</u> s/Test Report	Confirmation	ATEX	IECEx

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5072-2TB04&lang=en

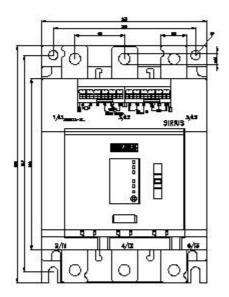
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

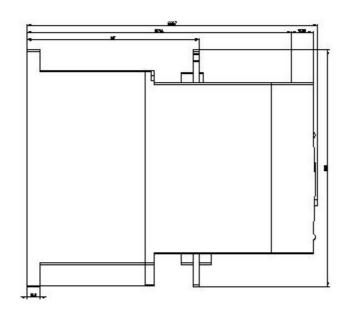
https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-2TB04/char

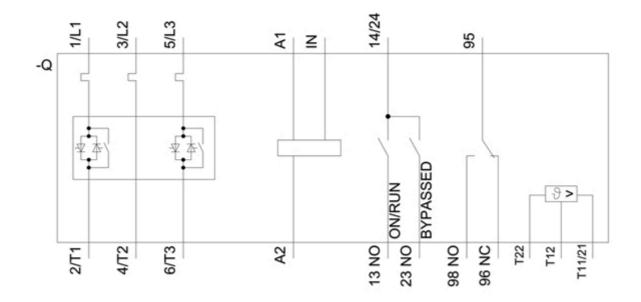
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5072-2TB04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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