## SIEMENS

## Data sheet

## 3RW5217-1TC04



SIRIUS soft starter 200-480 V 38 A, 24 V AC/DC Screw terminals Thermistor input

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</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>	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4WA10; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10</u>
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3824-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1820-0: Type of coordination 2. Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
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

The class         CLASS 10A (default) / 10E / 20E; acc. to IEC 60947.4-2           boffering fine in the event of power failure         100 ms           is the minic current direcuit         100 ms           is the minic current direcuit         100 ms           is the minic current direcuit         00 ms           is the minic current direcuit         00 ms           is the direcuit </th <th>number of controlled phases</th> <th>3</th>	number of controlled phases	3
buffaring time in the event of power failure <ul> <li>for control circuit</li> <li>for control circuit</li></ul>		
• for nane current crutit         100 ms           • for control circuit         600 V           insulation voltage rated value         600 V           degree of pollution         3, acc. to IEC 60947-4-2           inpulse voltage rated value         64V           bicking voltage of the thyristor maximum         1800 V           surge voltage rated value         64V           maximum permissible voltage for sefi isolation         64V           * between main and auxiliary circuit         600 V           * between main and auxiliary circuit         15 g / 11 ms, from 12 g / 11 ms with potential contact lifting           * between main and auxiliary circuit         15 g / 12 g / 10 ms (from 12 g / 11 ms with potential contact lifting           * oth crope carce (Date)         15 g / 2018 00:00:00           • reference code acc. to IEC 5047-4-2         4C S3a           * oth crope control (soft stop)         Yes           • sign of this indice         Yes           • sign of the stratege of the of the	· ·	
• incontrol circuit         100 ms           insulation voltage rated value         600 V           degree of pollution         3, acc to IEC 60947.4-2           impuise voltage rated value         6 KV           blocking voltage resistance rated value         6 KV           service factor         1           service factor         1           service factor         600 V           service main and availary circuit         600 V           shetwen main and availary circuit         600 V           shetwen main and availary circuit         15 g / 11 ms, with potential contact tilling           vibration resistance         15 g / 11 ms, with potential contact tilling           vibration resistance         15 g / 11 ms, with potential contact tilling           vibration resistance         15 g / 11 ms, from 12 g / 11 ms with potential contact tilling           vibration resistance         15 g / 11 ms, from 12 g / 11 ms with potential contact tilling           vibration resistance         16 S / 2018 00:00:00           product function         Yes           • amp-down (soft stop)         Yes           • and policy forstanting)         Yes           • and avail do ricuit         Yes           • and resistance rated         Yes           • and vibration roth protection		100 ms
inside notage rated value         600 V           degree of pollution         3, acc. to the C6097-4-2           impulse votage rated value         6 kV           blocking votage of the thyristor maximum         1600 V           serve factor         1           surge votage rated value         6 kV           maximum permissible votage rate isolation         6 kV           eleveen main and auxiliary circuit         500 V           sheck 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 catagory acc. to EC 8047-4-2         AC Sta           reference code acc. to EC 80474-2         AC Sta           vibration resistance         15 u2 2018 00:00:00           endiputed for eact to the Stafe-2         Q           subtance Prohibitance (Date)         Yes           endiputed for eact to the Stafe-2         Q           escontend protection         Yes           einder reset         Yes           einder reset         Yes           endrot reset         Yes           endrot reset value         Yes           endrot reset value         Yes           endrot reset value         Yes		
degree of polition     3. acc. to IEC 60947-4-2       imputes voltage rated value     6 kV       blocking voltage riststance rated value     6 kV       sarvice factor     1       surge voltage resistance rated value     6 kV       maximum permissible voltage for safe isolation     6 kV       s 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 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     10 S 2018 00:00:00       product function     Yes       • augustable current limitation     Yes   <		
Imputes voltage rated value         6 kV           blocking voltage of the thyristor maximum         600 V           surge voltage resistance rated value         6 kV           naximum partinesible voltage for safe isolation         600 V           • between main and auxiliary circuit         56 vV           • between main and auxiliary circuit         56 vV           • between main and auxiliary circuit         600 V           • display to the 12 g / 11 ms, from 12 g / 11 ms with potential contact lifting           • display to the 12 g / 12 ms, from 12 g / 11 m		
bicking voltage of the thyristor maximum         1 600 V           service factor         1           surge voltage resistance rated value         6 kV           maximum permissible voltage for safe isolation         6 kV           shock resistance         15 g/ 11 ms, form 12 g / 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms, form 12 g / 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms, form 12 g / 11 ms with potential contact lifting           vibration resistance         15 g/ 11 ms, form 12 g / 11 ms with potential contact lifting           vibration resistance         15 g/ 2018 00:00:00           product function         Yes           • amp-down (soft stop)         Yes           • andp-down (soft stop)         Yes		
service factor         1           surge voltage resistance rated value         6k V           wathum permissible voltage for safe isolation         6k V           • between main and auxillary circuit         600 V           wibrato resistance         15 g/ 11 ms, from 12 g / 11 ms with potential contact lifting           wibraton resistance         15 mm to 6 Hz; 2g to 500 Hz           utilization resistance (Dets)         15 Loc 2016 00:00:00           Substance Prohibitance (Dets)         Yes           • amp-up (soft starting)         Yes           • adjustable current limitation         Yes           • and or overload protection         Yes           • motor overload protection         Yes           • motor overload protection         Yes           • starting measured value display         Yes: Toll motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes           • and or overload protection         Yes           • and or overload protection         Yes           • and or overload p		
surge voltage resistance rated value         6 kV           maximum permissible voltage for safe isolation         6 kV           • between main and auxilary 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           utilization category acc. to IEC 60047-4-2         AC 53a           or reference code acc. to IEC 61346-2         0           substance Prohibitance (Date)         150-2018 00:00:00           product function         Yes           • amp-down (soft stop)         Yes           • adjustable current limitation         Yes           • infrinsic device protection         Yes; Full motor protection (thermistor motor protection motor overload protection)           • evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection motor overload protection)           • evaluation of thermistor motor protection         Yes; Sig Y unning of the control supply voltage           • enonce reset         Yes; Dy unning off the control supply voltage           • error lopook         Yes; nonnection with special accessories           • via software configurable         Yes; non onelacion with special accessories		
maximum permissible voltage for safe isolation         660 V           • between main and auxiliary circuit         660 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         0           Substance Prohibitance (Dats)         15 02 2018 00:00:00           preforme code acc. to IEC 81346-2         0           simp-up (soft starting)         Yes           • ramp-up (soft starting)         Yes           • framp-up (soft starting)         Yes           • forto roweload protection         Yes           • forto roweload protection         Yes           • moto roweload protection         Yes           • endor orelad protection         Yes           • moto roweload protection         Yes		
• between main and auxiliary circuit         600 V           shock resistance         15 g / 11 ms, fm 12 g / 11 ms, thy thotential contact lifting           vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           utilization category acc. to IEC 60047-4-2         AC 53a           reference code acc. to IEC 8146-2         Q           substance Prohibitance (Dato)         15.02.2018 00:00:00           product function         Yes           • amp-dy (soft staring)         Yes           • adiptable current limitation         Yes           • adiptable current limitation         Yes           • adiptable current limitation         Yes           • infinition (divice protection         Yes           • infinition (divice protection         Yes           • motor overload protection         Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)           • existation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • side deta circuit         Yes           • autor-RESET         Yes; Only in conjunction with special accessories           • error topobok         Yes; Only in conjunction with special accessories           • error topobok         Yes; Not in conjunction with special accessories           • vis software parameterizable         No <th></th> <td></td>		
shock resistance         15 g / 11 ms, from 12 g / 11 ms, from 12 g / 11 ms, with potential contact lifting           vibration resistance         16 mm to 6 Hz; 2g to 500 Hz.           uitization calegory acc. to IEC 60947.4-2         AC 53a           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         15.02.2018 00:00:00           namp-up (soft starting)         Yes           • amp-up (soft starting)         Yes           • adjustable current limitation         Yes           • motor overload protection         Yes           • motor overload protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection           • auto-RESET         Yes           • auto-RESET         Yes           • auto-RESET         Yes; Only in conjunction with special accessories           • arear logbook         Yes; Only in conjunction with special accessories           • arear logbook         Yes           • arear logbook         Yes           • arear logbook         Yes           • arear logbook         Yes           • areanot reset		600 V
vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           utilization category acc. to IEC 60947-4-2         AC 53a           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         15.02.2018.00.00.00           product function         Yes           • amp-down (soft starting)         Yes           • dijustable current limitation         Yes           • adjustable current limitation         Yes           • ump ramp down         Yes           • intrinsic device protection         Yes           • motor overload protection         Yes           • exiluation of thermistor motor protection         Yes           • inside-efficia circuit         Yes           • auto-RESET         Yes           • auto-RESET         Yes           • communication function         Yes           • auto-RESET         Yes           • and wave configurable         Yes           • and wave configurable         Yes           • avis oftware parameterizable         No		
utilization category act: to IEC 60947-42         AC 53a           reference code act: to IEC 81346-2         Q           Substance Prohibitance (Date)         15.02.2018 00:00:00           product function         Yes           • ramp-up (soft starting)         Yes           • adjustable current limitation         Yes           • adjustable current limitation motor protection         Yes           • motor overload protection         Yes           • motor overload protection         Yes           • auto-RESET         Yes           • auto-RESET         Yes           • monual RESET         Yes           • auto-RESET         Yes		
reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         15.02.2018 00:000           product function         Yes           • ramp-up (soft starting)         Yes           • adjustable current limitation         Yes           • motor overlead protection         Yes           • motor overlead protection         Yes; Type A PTC or Klixon / Thermoclick           • motor overlead protection         Yes; By turing off the control supply voltage           • auto-RESET         Yes           • and a RESET         Yes           • ermote reset         Yes; Only in conjunction with special accessories           • operating measured value display         Yes; Only in conjunction with special accessories           • avis oftware configurable         Yes           • via software configurable         Yes           • firmware update         Yes           • forque control         No           • avia og uput         No           • removable terminal for control circuit         Yes           • removable terminal for control circuit         Yes           • fo		
Substance Prohibitance (Date)         15.02.2018 00:00:00           product function         15.02.2018 00:00:00           iram-gu (soft starting)         Yes           iram-down (soft stop)         Yes           ionary (soft starting)         Yes		
product function         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           • inside-delta circuit         Yes           • auto-RESET         Yes           • auto-RESET         Yes; Durning off the control supply voltage           • communication function         Yes; Only in conjunction with special accessories           • drag or logbook         Yes; Only in conjunction with special accessories           • via software configurable         Yes           • via software configurable         Yes           • removable terminal for control circuit         Yes           • firdrey control         No           • aralog output         No           • at 0° C rated value         35 A           • at 0° C rated value         58 A           • at 0° C rated value         58 A		
• ramp-up (soft starting)     Yes       • ramp-down (soft stop)     Yes       • soft Torque     Yes       • adjustable current limitation     Yes       • upmp ramp down     Yes       • initrinsic device protection     Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Tull motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Tull motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Tull motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Tull motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Tull motor protection (thermistor motor protection and electronic motor overload protection)       • evaluation of thermistor motor protection     Yes; Tull motor protection (thermistor motor protection)       • evaluation of thermistor motor protection     Yes; Suptuming off the control supply voltage       • orgenting measured value display     Yes; Only in conjunction with special accessories       • error logbook     Yes; Only in conjunction with special accessories       • if mixer update     Yes       • removable ferminal for control cinc		
<ul> <li>ramp-down (soft stop)</li> <li>Yes</li> <li>Soft Torque</li> <li>Soft Torque</li> <li>Soft Torque</li> <li>Soft Torque</li> <li>Soft Torque</li> <li>Soft Torque</li> <li>Yes</li> <li>adjustable current timitation</li> <li>Yes</li> <li>intrinsic device protection</li> <li>Yes</li> <li>operating measured value display</li> <li>Yes</li> <li>in connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>Yes</li> <li>removable terminal for control circuit</li> <li>in analog output</li> <li>No</li> <li>operational current</li> <li>at 60 °C rated value</li> <li>Sta A</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>Sta A</li> <li>at 60 °</li></ul>		Yes
<ul> <li>Soft Torque</li> <li>Soft Torque</li> <li>Yes</li> <li>adjustable current limitation</li> <li>Yes</li> <li>untrinsic device protection</li> <li>Yes</li> <li>intrinsic device protection</li> <li>Yes</li> <li>Wes 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>inside-deta circuit</li> <li>auto-RESET</li> <li>remote reset</li> <li>operating measured value display</li> <li>Yes, Only in conjunction with special accessories</li> <li>error logbook</li> <li>Yes, in connection with the PROFINET Standard communication modules</li> <li>via software parameterizable</li> <li>via software portaneterizable</li> <li>via software portanetic current</li> <li>stage of the operating of control circuit</li> <li>stage of the operating of control circuit</li> <li>stage of the operating voltage</li> <li>at 40 °C rated value</li> <li>stage of the operating voltage</li> <li 0°c="" at="" li="" rated="" value<=""> <li>stage of the opera</li></li></ul>		
• 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; Full motor protection (thermistor motor protection and electronic motor overload protection)         • evaluation of thermistor motor protection       Yes; Type A PTC or Klixon / Thermoclick         • inside-detta circuit       Yes         • 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         • transolate terminal for control circuit       Yes         • firmware update       Yes         • torque control       No         • analog output       No         • at 40 °C rated value       38 A         • at 50 °C rated value       58 A         • at 50 °C rated value       58 A         • at 60 °C rated value       58 A         • at 60 °C rated value       58 A         • at 60 °C rate		
• pump ramp downYes• intrinsic device 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• inside-delta circuitYes• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableYes• removable terminal for control circuitYes• traque controlYes• traque controlYes• at 40 °C rated value38 A• at 50 °C rated value38 A• at 60 °C rated value58 A• at 60 °C rated value68 A• at 60 °C rated value76 %• a		
• 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         • inside-detta circuit       Yes         • auto-RESET       Yes         • manual RESET       Yes         • remote reset       Yes; Dy turning off the control supply voltage         • communication function       Yes; Only in conjunction with special accessories         • via software parameterizable       No         • via software configurable       Yes         • removable terminal for control circuit       Yes         • firmware update       Yes         • removable terminal for control circuit       Yes         • analog output       No         • at 40 °C rated value       38 A         • at 50 °C rated value       58 A         • at 60 °C rated value       58 A	-	
• 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• inside-delta circuitYes• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes;• removable terminal for control circuitYes• firmware updateYes• torque controlNo• analog outputNoPower ElectronicsYesoperational current38 A• at 40 °C rated value34 A• at 60 °C rated value58 A• at 60 °C rated value65 8 A• at 60 °C rated value58 A• at 60 °C rated value65 8 A• at 60 °C rated value58 A		
motor overfload protection)           • evaluation of themistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • inside-delta circuit         Yes           • auto-RESET         Yes           • manual RESET         Yes           • remote reset         Yes; Dury in off the control supply voltage           • communication function         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           • firmware update         Yes           • torque control         Yes           • torque control         No           • analog output         No           Power Electronics         Yes           • at 60 °C rated value         38 A           • at 60 °C rated value         56.8 A           • at 60 °C rated value         52.8 A <tri 64="" td="" value<="">         52.8 A      <t< th=""><th></th><th></th></t<></tri>		
• inside-delta circuitYes• 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• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• firmware updateYes; only in conjunction with the PROFINET Standard communication module• firmware updateYes• torque controlNo• torque controlNo• analog outputNoPower Electronics38 A• at 40 °C rated value38 A• at 60 °C rated value38 A• at 60 °C rated value58 A• at 60 °C		
• auto-RESET     Yes       • manual RESET     Yes       • remote reset     Yes; By turning off the control supply voltage       • communication function     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; Only in conjunction with special accessories       • via software configurable     Yes; in connection with the PROFINET Standard communication module       • firmware update     Yes       • removable terminal for control circuit     Yes       • torque control     No       • analog output     No       • analog output     No       • at 40 °C rated value     38 A       • at 60 °C rated value     38 A       • at 60 °C rated value     58 A       • at 60 °	<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Chyl 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• removable terminal for control circuitYes• firmware updateYes• removable terminal for control circuitYes• analog outputNo• orated value38 A• at 40 °C rated value34 A• at 60 °C rated value31 A• at 40 °C rated value58 A• at 40 °C rated value58 A• at 40 °C rated value58 A• at 60 °C rated value20 480 V• at 60 °C rated value200 480 V• at 60 value200 480 V• at 60 value15 %	<ul> <li>inside-delta circuit</li> </ul>	Yes
• 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; only in conjunction with special accessories• via software configurableYes; in connection with the PROFINET Standard communication module• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• analog outputNoPower ElectronicsYesoperational current38 A• at 40 °C rated value38 A• at 60 °C rated value34 A• at 60 °C rated value58 A• at 60 °C rated value65.8 A• at 60 °C rated value61.8 N• at 60 °C rated v	● 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;• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• borque controlNo• analog outputNoPower ElectronicsYesoperational current • at 40 °C rated value38 A• at 50 °C rated value34 A• at 60 °C rated value31 Aoperational current at inside-delta circuit58 A• at 60 °C rated value58 A• at 60 °C rated value58 A• at 60 °C rated value50 A• at 60 °C rated value	manual RESET	Yes
• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• firmware updateYes• temovable terminal for control circuitYes• brque controlNo• analog outputNo• outputNo• analog outputSa A• at 40 °C rated value38 A• at 40 °C rated value34 A• at 60 °C rated value55.8 A• at 40 °C rated value56.8 A• at 40 °C rated value52.8 A• at 60 °C rated value61.9 °C• at 60 °C rated value61.9 °C• at 60 °C rated value52.8 A• at 60 °C rated value61.9 °C• at 60 °C rated value61.9 °C• at 60 °C rated value61.9 °C• at	<ul> <li>remote reset</li> </ul>	Yes; By turning off the control supply voltage
error logbookYes; Only in conjunction with special accessoriesvia software parameterizableNovia software configurableYeserror logbookYes; in connection with the PROFINET Standard communication moduleerror logbookYes; in connection with the PROFINET Standard communication moduleerror logbookYeserror logbookYeserror logbookYeserror logbookYeserror logbookNoerror logbookNoerror log outputNoPower ElectronicsNoerror log output38 Ae at 40 °C rated value34 Ae at 60 °C rated value31 Ae at 60 °C rated value58 Ae at 60 °C rated value52.8 Ae at 60 °C	<ul> <li>communication function</li> </ul>	Yes
• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsNooperational current38 A• at 40 °C rated value34 A• at 60 °C rated value31 Aoperational current at inside-delta circuit58 A• at 60 °C rated value52.8 A• at rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit ated value200 480 V• at rated value tolerance of the operating voltage-15 %	<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• firmware updateYes• removable terminal for control circuitYes• torque controlNo• torque controlNo• analog outputNo• power Electronics38 A• at 40 °C rated value34 A• at 60 °C rated value31 A• at 60 °C rated value58 A• at 60 °C rated value58 A• at 60 °C rated value52 8 A• at 60 °C rated value60 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %• relative negative tolerance of the operating voltage15 %	<ul> <li>error logbook</li> </ul>	Yes; Only in conjunction with special accessories
• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower Electronics• art 40 °C rated value38 A• at 50 °C rated value34 A• at 60 °C rated value31 A• operational current at inside-delta circuit65.8 A• at 60 °C rated value52.8 A• at 60 °C rated value61.8 N• at 60 °C rated value52.8 A• at 60 °C rated value52.8 A• at 60 °C rated value61.8 N• at 60 °C rated value52.8 A• at 60 °C rated value61.8 N• at 60 °C rated value61.8 N• at 60 °C rated value61.8 N• at 60 °C rated value70	<ul> <li>via software parameterizable</li> </ul>	No
modulemodulefirmware updateYesremovable terminal for control circuitYestorque controlNoanalog outputNoPower ElectronicsNooperational current38 Ae at 40 °C rated value38 Ae at 60 °C rated value31 Aoperational current at inside-delta circuit58 Ae at 40 °C rated value58 Aoperational current at inside-delta circuit58 Aoperational current at inside-delta circuit58 Aoperating voltage200 480 Voperating voltage200 480 Ve at inside-delta circuit rated value200 480 Ve at inside-delta circuit rated value<	<ul> <li>via software configurable</li> </ul>	Yes
• removable terminal for control circuitYes• torque controlNo• analog outputNoPower Electronicsoperational current38 A• at 40 °C rated value34 A• at 50 °C rated value31 Aoperational current at inside-delta circuit65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 A• at 60 °C rated value10 °V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value10 %• relative negative tolerance of the operating voltage10 %	PROFlenergy	·
torque controlNo• analog outputNoPower Electronicsoperational current38 A• at 40 °C rated value38 A• at 50 °C rated value31 Aoperational current at inside-delta circuit65.8 A• at 60 °C rated value58 A• at 60 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value15 %	• firmware update	Yes
• analog outputNoPower Electronicsoperational current38 A• at 40 °C rated value38 A• at 50 °C rated value31 A• at 60 °C rated value51 A• at 40 °C rated value58 A• at 40 °C rated value58 A• at 50 °C rated value52.8 A• at 60 °C rated value200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %	<ul> <li>removable terminal for control circuit</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         • at 40 °C rated value         • at 50 °C rated value         • at 60 °C rated value         • at inside-delta circuit rated value	torque control	No
operational current38 A• at 40 °C rated value38 A• at 50 °C rated value34 A• at 60 °C rated value31 Aoperational current at inside-delta circuit65.8 A• at 40 °C rated value65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage-15 %	<ul> <li>analog output</li> </ul>	No
• at 40 °C rated value38 A• at 50 °C rated value34 A• at 60 °C rated value31 Aoperational current at inside-delta circuit5• at 40 °C rated value65.8 A• at 40 °C rated value58 A• at 50 °C rated value52.8 A• at 60 °C rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage-15 %	Power Electronics	
<ul> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>34 A</li> <li>at 60 °C rated value</li> <li>31 A</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>65.8 A</li> <li>at 60 °C rated value</li> <li>58 A</li> <li>at 60 °C rated value</li> <li>52.8 A</li> <li>operating voltage</li> <li>rated value</li> <li>200 480 V</li> <li>at inside-delta circuit rated value</li> <li>200 480 V</li> <li>e at inside-delta circuit rated value</li> <li>200 480 V</li> <li>at inside-delta circuit rated value</li> <li>200 480 V</li> <li>at inside-delta circuit rated value</li> <li>210 480 V</li> </ul>	operational current	
• at 60 °C rated value31 Aoperational current at inside-delta circuit• at 40 °C rated value65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage• rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at-15 %	• at 40 °C rated value	38 A
operational current at inside-delta circuit65.8 A• at 40 °C rated value65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at-15 %	• at 50 °C rated value	34 A
operational current at inside-delta circuit65.8 A• at 40 °C rated value65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at-15 %	• at 60 °C rated value	31 A
• at 40 °C rated value65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %	operational current at inside-delta circuit	
• at 60 °C rated value52.8 Aoperating voltage• rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at10 %relative negative tolerance of the operating voltage at-15 %	-	65.8 A
operating voltage       200 480 V         • rated value       200 480 V         • at inside-delta circuit rated value       200 480 V         relative negative tolerance of the operating voltage       -15 %         relative negative tolerance of the operating voltage       10 %         relative negative tolerance of the operating voltage at       -15 %	• at 50 °C rated value	58 A
<ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>200 480 V</li> <li>200 480 V</li> <li>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage</li> <li>10 %</li> <li>relative negative tolerance of the operating voltage at</li> <li>-15 %</li> </ul>	• at 60 °C rated value	52.8 A
<ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>200 480 V</li> <li>200 480 V</li> <li>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage</li> <li>10 %</li> <li>relative negative tolerance of the operating voltage at</li> <li>-15 %</li> </ul>	operating voltage	
• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage at10 %relative negative tolerance of the operating voltage at-15 %		200 480 V
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at-15 %	<ul> <li>at inside-delta circuit rated value</li> </ul>	
relative positive tolerance of the operating voltage       10 %         relative negative tolerance of the operating voltage at       -15 %		
relative negative tolerance of the operating voltage at -15 %		10 %
		-15 %

relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	11 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	30 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	15.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	17 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	18.5 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	20 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	21.5 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	23 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	24.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	26 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	27.5 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	29 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	30.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	32 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	33.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	35 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	36.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	38 A
minimum	15.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	26.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	29.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	32 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	34.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	37.2 A
• for inside-delta circuit at rotary coding switch on switch position 6	39.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	42.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	45 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	47.6 A 50.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	52.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	55.4 A
<ul> <li>switch position 12</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	58 A
<ul> <li>switch position 13</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	60.6 A
<ul> <li>switch position 14</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	63.2 A
switch position 15 • for inside-delta circuit at rotary coding switch on	65.8 A
switch position 16	

<ul> <li>at inside-delta circuit minimum</li> </ul>	26.8 A
• at inside-delta circuit minimum minimum load [%]	
power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le
at 40 °C after startup	23 W
• at 50 °C after startup	23 W
	22 W 21 W
• at 60 °C after startup	21 W
power loss [W] at AC at current limitation 350 %	C20.144
• at 40 °C during startup	628 W
• at 50 °C during startup	526 W
• at 60 °C during startup	464 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
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	
<ul> <li>at DC rated value</li> </ul>	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	360 mA
locked-rotor current at close of bypass contact	0.75 A
maximum	
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 digital inputs	1
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	275 mm

width       170 mm         depth       152 mm         required spacing with side-by-side mounting       10 mm         • forwards       10 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         weight without packaging       2.3 kg         Connections/ Terminals       type of electrical connection         • for control circuit       screw-type terminals         wire length for thermistor connection       screw-type terminals         with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       250 m         • with conductor cross-section = 2.5 mm² maximum       250 m         • with conductor cross-sections       • for main contacts         - solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)         • at AWG cables for main current circuit solid       2x (16 12), 2x (14 8)	
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         weight without packaging       2.3 kg         Connections/ Terminals       50 m         type of electrical connection       screw-type terminals         • for control circuit       screw-type terminals         wire length for thermistor connection       50 m         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         • for main contacts       - solid       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
• forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminalswire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for main contacts- solid- solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
<ul> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>5 mm</li> <li>at the side</li> <li>5 mm</li> <li>2.3 kg</li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>screw-type terminals</li> <li>for control circuit</li> <li>screw-type terminals</li> </ul> </li> <li>wire length for thermistor connection             <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>for main contacts</li></ul></li></ul>	
• upwards       100 mm         • downwards       75 mm         • at the side       5 mm         • at the side       5 mm         weight without packaging       2.3 kg         Connections/Terminals       2.3 kg         type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         • for control circuit       screw-type terminals         wire length for thermistor connection       50 m         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       150 m         • with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       250 m         • for main contacts       - solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
• downwards75 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuit• for control circuitscrew-type terminalswire length for thermistor connection• 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• for main contacts- solid- solid- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 10 mm²)	
• at the side5 mmweight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminalswire length for thermistor connectionscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for main contacts2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
weight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• main contacts- solid- solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
Connections/ Terminals         type of electrical connection         • for main current circuit       screw-type terminals         • for control circuit       screw-type terminals         wire length for thermistor connection       screw-type terminals         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       150 m         • with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       250 m         • for main contacts       - solid         - solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         • for control circuit       screw-type terminals         wire length for thermistor connection       sorew-type terminals         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       150 m         • with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       e for main contacts         - solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>screw-type terminals</li> <li>screw-type terminals<td></td></li></ul>	
• for control circuit       screw-type terminals         wire length for thermistor connection       screw-type terminals         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       150 m         • with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       250 m         • for main contacts       - solid         - solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
wire length for thermistor connection       50 m         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       150 m         • with conductor cross-section = 2.5 mm² maximum       250 m         • with conductor cross-sections       250 m         • for main contacts       - solid         - solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
<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>type of connectable conductor cross-sections</li> <li>for main contacts         <ul> <li>– solid</li> <li>– solid</li> <li>– finely stranded with core end processing</li> </ul> </li> <li>type of conmercial conductor crossing</li> </ul>	
<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         <ul> <li>– solid</li> <li>– solid</li> <li>2x (1.0 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>– finely stranded with core end processing</li> </ul> </li> </ul>	
• with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       -         • for main contacts       -         — solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         — finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
type of connectable conductor cross-sections         • for main contacts         — solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         — finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
<ul> <li>for main contacts         <ul> <li>– solid</li> <li>– finely stranded with core end processing</li> </ul> </li> <ul> <li>2x (1.0 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>2x (1.0 2.5 mm<sup>2</sup>), 2x (2.5 6.0 mm<sup>2</sup>)</li> </ul> </ul>	
— solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         — finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
- finely stranded with core end processing 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )	
type of connectable conductor cross-sections	
• for control circuit solid 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )	
• for control circuit finely stranded with core end 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )	
processing	
• at AWG cables for control circuit solid 1x (20 12), 2x (20 14)	
wire length	
between soft starter and motor maximum     800 m	
• at the digital inputs at AC maximum 100 m	
• at the digital inputs at DC maximum 1 000 m	
tightening torque	
• for main contacts with screw-type terminals 2 2.5 N·m	
• for auxiliary and control contacts with screw-type 0.8 1.2 N·m	
terminals	
tightening torque [lbf·in]	
• for main contacts with screw-type terminals 18 22 lbf in	
• for auxiliary and control contacts with screw-type 7 10.3 lbf in	
Ambient conditions	_
installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog	
ambient temperature	
• during operation	40 °C or
• during operation -25 +00 °C, Please observe derating at temperatures of above	
• during storage and transport -40 +80 °C	
environmental category	
• during operation acc. to IEC 60721     3K6 (no ice formation, only occasional condensation), 3C3	(no salt
mist), 3S2 (sand must not get into the devices), 3M6	
during storage acc. to IEC 60721     1K6 (only occasional condensation), 1C2 (no salt mist), 1S	2 (sand must
not get inside the devices), 1M4	
• during transport acc. to IEC 60721 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	

JL/CSA ratings	
manufacturer's article number	
of circuit breaker	
— usable for Standard Faults at 460/480 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA
<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA
<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
<ul> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
of the fuse	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 150 A; Iq = 5 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 150 A; lq = 100 kA
— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 150 A; lq = 5 kA
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 150 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	10 hp
• at 220/230 V at 50 °C rated value	10 hp
• at 460/480 V at 50 °C rated value	20 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	15 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	20 hp
at 460/480 V at inside-delta circuit at 50 °C rated value	40 hp
contact rating of auxiliary contacts according to UL afety related data	R300-B300
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	in accordance with IEC 60947-4-2
ertificates/ approvals	
General Product Approval	EMC Declaration of Conformity
	0
(SP) (WC) (VL)	FAI / 🐼 CE
	RCM EG-Konf.
Test Certificates Marine / Shipping	
Type Test Certific- ates/Test Report	LISS PRS
VERITAS	3
other	

**Confirmation** 

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5217-1TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5217-1TC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1TC04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5217-1TC04&lang=en

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

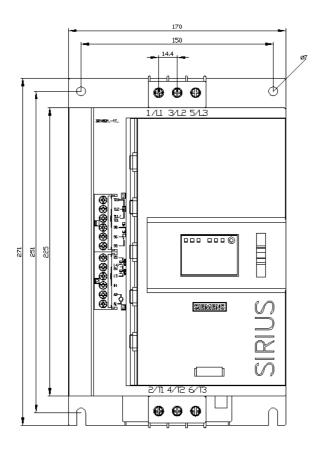
https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1TC04/char

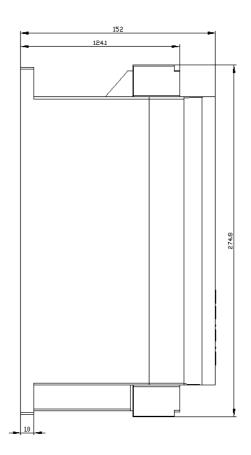
Characteristic: Installation altitude

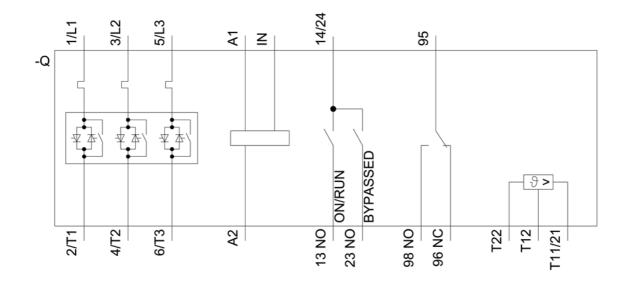
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5217-1TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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