# **SIEMENS**

Data sheet 3RW5243-6TC04



SIRIUS soft starter 200-480 V 210 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>	3RW5980-0HS00
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1230-2; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3333; Type of coordination 2, Iq = 65 kA

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> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3

buffering time in the event of power failure  • for main current circuit  • for main current circuit  insulation voltage rated value  degree of pollution  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  • between main and auxiliary circuit  • between main and auxiliary circuit  • botween main auxiliary circuit  • botween main and auxiliary circuit  • botween main and auxiliary circuit  • botween main and auxiliary circuit  • botween main auxiliary circuit  • botween main and auxiliary circuit  • botween main and auxiliary circuit  • botween main auxiliary circuit  • b		
• for control circuit  • for pollution  • for control circuit  • for pollution  • for control circuit  • at 60 °C rated value  • at	trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
For control circuit   100 ms	-	
Insulation voltage rated value   600 V   6   6   6   6   6   6   6   6   6		
degree of pollution Impulse voltage rated value blocking voltage of the thyristor maximum service factor  surge voltage resistance rated value between main and auxilary circuit between the self-activation category acc. to IEC 60947-4-2 AC 538  reference code acc. to IEC 61346-2 College of Stating reproduct function carping yeold starting remp down (soft stop) carping with a stating remp down (soft stop) carping part down carping yeold starting remp down carping yeold yes continuated protection remp down remp d		
Impulse voltage rated value   6 kV   1 600 V   1 600 V   1 800 V		600 V
Discission voltage of the thyristor maximum   1 600 V	degree of pollution	3, acc. to IEC 60947-4-2
surge voltage resistance rated value  **eleveen main and auxiliary circuit  **ereforence code acc. to IEC 80947-4-2  **ereforence code acc. to IEC 81346-2  **Q.  **Q.  **Substance Prohibitance (Date)  **ereforduct function  **eram-down (soft stop)  **evaluation of thermistor motor protection		
surge voltage resistance rated value maximum permissible voltage for safe Isolation between main and audilary circuit shock resistance 15 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance utilization category acc, to IEC 63947-4-2 AC 53a reference code acc, to IEC 81346-2 Q Substance Prohibitance (Date) 15 p / 20 ms. from 12 g / 11 ms with potential contact lifting vibration resistance utilization category acc, to IEC 63947-4-2 AC 53a  C	blocking voltage of the thyristor maximum	1 600 V
with memins and auxiliary circuit between main auxiliary circuit between main and auxiliary circuit auxiliary circuit between main to control circuit between main and auxiliary circuit auxili	service factor	1
e between main and auxillary 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           utilization category acc. to IEC 60947-42         AC 53a           reference code acc. to IEC 81348-2         Q           Substance Prohibitance (Date)         75 (200 ms)           ramp-up (soft starting)         Yes           * ramp-down (soft stop)         Yes           * Soft Torque         Yes           * adjustable current limitation         Yes           * pump ramp down         Yes           * initriaci 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-detia circuit         Yes           * evaluation of thermistor motor protection (thermistor motor protection and electronic motor overload protection)         Yes, Type A PTC or Klixon / Thermoclick           * evaluation of themistor motor protection         Yes         Yes         Yes         Yes         Yes (any) in conjunction with special accessories         <	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           vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           vibration resistance         AC 53a           reference code acc. to IEC 60947-4-2         AC 53a           vibration Problibitance (Date)         15 02.2018           product function         7 50 02.2018           ramp-down (soft stop)         Yes           a dijustable current limitation         Yes           a pump ramp down         Yes           intrinsic device protection         Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)           e evaluation of themistor motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)           e evaluation of themistor motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)           e valuable of themistor motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)           e valuation of themistor motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)           e valuation of themistor motor protection         Yes, Full motor protection (thermistor motor protection)           e valuation of themis	maximum permissible voltage for safe isolation	
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           product function         ***           *** ramp-up (soft starting)         Yes           *** armp-down (soft stor)         Yes           *** Soft Torque         Yes           *** adjustable current limitation         Yes           *** purp ramp down         Yes           *** park purp ramp down         Yes           *** park purp ramp down         Yes           *** purp ramp down         Yes           **	between main and auxiliary circuit	600 V
unilization category acc. to IEC 60947-42         AC 53a           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         15.02.2018           product function         Yes           • ramp-up (soft starting)         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; 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           • evaluation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • autor-RESET         Yes           • manual RESET         Yes           • error logbook         Yes; by turning off the control supply voltage           • error logbook         Yes, Chyl in conjunction with special accessories           • via software parameterizable         Yes           • in firmware update         <	shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)  Froduct function Framp-up (soft starting) Framp-down (soft stop) Framp-	vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
Substance Prohibitance (Date)  product function  ramp-up (soft starting)  ramp-dwn (soft stop)  Soft Torque  yes adjustable current limitation  pump ramp down intrinsic device protection  rotor overload protection  e valuation of thermistor motor protection  inside-delta circuit  auto-RESET  remote reset  communication function  operating measured value display  e via software configurable  via software parameterizable  via software configurable  removable terminal for control circuit  torque control  a 14 0°C rated value  a 15 0°C rated value  a 16 0°C rated value  e relative negative tolerance of the operating voltage  relative positive tolerance of the operating voltage  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the op	utilization category acc. to IEC 60947-4-2	AC 53a
ramp-up (soft starting) ramp-up (soft starting) ramp-down (soft slop) Soft Torque adjustable current limitation pump ramp down intrinsic device protection motor overload protection rimitation of themistor motor protection evaluation of themistor motor protection rimitation of themistor motor protection evaluation of themistor motor protection rimitation of themistor motor protection record veel fault motor overload protection) responsible of the mistor overload protection (thermistor motor protection and electronic motor overload protection) responsible of the mistor overload protection overload protection in motor overload protection in motor overload protection) responsible of the mistor overload protection overload protection in motor p	reference code acc. to IEC 81346-2	Q
• ramp-up (soft starting) • ramp-down (soft stop) • soft Torque • adjustable current limitation • pump ramp down • motor overload protection • waluation of thermistor motor protection • evaluation of thermistor motor protection and electronic motor overload protection)  • evaluation of thermistor motor protection and electronic motor overload protection)  • evaluation of thermistor motor protection and electronic motor overload protection)  • evaluation of thermistor motor protection and electronic motor overload protection)  • yes, Type A PTC or Klixon / Thermoclick  • sauto-RESET • yes • part unual RESET • yes • yes, by turning off the control supply voltage • eremote reset • yes, Only in conjunction with special accessories  • yes, Only	Substance Prohibitance (Date)	15.02.2018
• ramp-down (soft stop) • Soft Torque • Soft Torque • adjustable current limitation • pump ramp down • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • error logbook • via software parameterizable • via software configurable • PROFlenergy • firmware update • removable terminal for control circuit • torque control • a aid 0°C rated value • a 160°C rated value • a 160°C rated value • a 160°C rated value • at 60°C rated value • a 160°C	product function	
Soft Torque a adjustable current limitation pump ramp down intrinsic device protection whose protection return of thermistor motor protection protection of thermistor motor protection inside-delta circuit auto-RESET protection of thermistor motor protection of the poerating voltage protection of the poerating voltage at inside-delta circuit protection of the preating voltage at inside-delta circuit protection of the poerating voltage at inside-delta circuit to the preating voltage at inside-delta circuit to the poerating voltage at inside-delta circuit to the poerating voltage at inside-delta circuit to the poerating voltage at inside-delta circuit to the preating voltage at inside-delta circuit to the preating voltage at inside-delta circuit to the poerating voltage at inside-delta circuit to the preating voltage at inside-del	<ul><li>ramp-up (soft starting)</li></ul>	Yes
adjustable current limitation pump ramp down pramp down promp coverload protection motor overload protection  evaluation of thermistor motor protection protection of thermistor motor protection on the protection of the protecti	<ul><li>ramp-down (soft stop)</li></ul>	Yes
pump ramp down     intrinsic device protection     motor overload protection     motor overload protection     motor overload protection     vest just motor protection (thermistor motor protection and electronic motor overload protection)     vesuluation of thermistor motor protection     inside-delta circuit     inside-delta circuit     ves just motor protection (thermistor motor protection and electronic motor overload protection)     ves just motor protection (thermistor motor protection and electronic motor overload protection)     ves just pass protection (thermistor motor protection and electronic motor overload protection)     ves just pass protection (thermistor motor protection and electronic motor overload protection)     ves just pass protection (thermistor motor protection and electronic motor vesto autor.     ves just pass protection (thermistor motor protection and electronic motor reset is purpled.     ves just pass protection in the protection overload protection with special accessories     ves just purpled in conjunction with special accessories     ves just pass protection with special a	Soft Torque	Yes
intrinsic device protection  motor overload protection  motor overload protection  evaluation of thermistor motor protection  inside-delta circuit  auto-RESET  manual RESET  remote reset  communication function  operating measured value display  reference of the operating version of the control circuit  removable terminal for control circuit  respective to for rated value  at 60 °C rated valu	<ul> <li>adjustable current limitation</li> </ul>	Yes
motor overload protection     vealuation of thermistor motor protection     evaluation of thermistor motor protection     inside-delta circuit     auto-RESET     yes     amaual RESET     yes     emente reset     ves; By turning off the control supply voltage     communication function     operating measured value display     error logbook     via software parameterizable     via software parameterizable     via software configurable     PROFlenergy     firmware update     removable terminal for control circuit     torque control     analog output     vover Electronics  operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated v	<ul> <li>pump ramp down</li> </ul>	Yes
evaluation of thermistor motor protection  inside-delta circuit  auto-RESET  manual RESET  remote reset  communication function  operating measured value display  in software parameterizable  via software configurable  removable terminal for control circuit  removable terminal for control circuit  orange population  and of Crated value  of Crat	<ul> <li>intrinsic device protection</li> </ul>	Yes
iniside-delta circuit  auto-RESET  ves  manual RESET  remote reset  communication function  operating measured value display  ves; Only in conjunction with special accessories  ves; Only in conjunction with sp	motor overload protection	
• auto-RESET • manual RESET • remote reset • cremote reset • communication function • operating measured value display • error logbook • ivia software parameterizable • removable terminal for control circuit • torque control • at 40 °C rated value • at 60 °C rated value • at	<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• manual RESET • remote reset • communication function • operating measured value display • error logbook • via software parameterizable • via software configurable • removable terminal for control circuit • torque control • analog output • at 40 °C rated value • at 50 °C rated value • at 60 °C ra	<ul> <li>inside-delta circuit</li> </ul>	Yes
remote reset communication function coperating measured value display error logbook via software parameterizable via software configurable removable terminal for control circuit torque control analog output vore Electronics  operational current at 10 °C rated value at 50 °C rated value at 60 °C rated	<ul><li>auto-RESET</li></ul>	Yes
communication function operating measured value display error logbook via software parameterizable via software configurable via software configurable ves PROFlenergy PROFlenergy firmware update removable terminal for control circuit vorque control analog output volverelectronics  Operational current at 150 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value	<ul> <li>manual RESET</li> </ul>	Yes
operating measured value display     error logbook     via software parameterizable     via software configurable     PROFlenergy     Yes; in connection with special accessories     Yes     PROFlenergy     Yes; in connection with the PROFINET Standard communication module     firmware update     removable terminal for control circuit     via analog output     No     analog output     No     vower Electronics  Operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value     at 50 °C rated value     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 50 °C rated value     at 50 °C rated value     at 60 °C rated value     at 50 °C rated value     at 60 °C rated value     at 50 °C rated value     at 5	<ul> <li>remote reset</li> </ul>	Yes; By turning off the control supply voltage
error logbook via software parameterizable via software configurable ves PROFlenergy PROFlenergy Yes; in connection with the PROFINET Standard communication module removable terminal for control circuit ves removable terminal for control circuit ves removable terminal for control circuit ves vower Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rate	<ul> <li>communication function</li> </ul>	Yes
via software parameterizable via software configurable via software configurable PROFlenergy Yes; in connection with the PROFINET Standard communication module removable terminal for control circuit torque control analog output No  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C r	<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
via software configurable     PROFlenergy     Yes; in connection with the PROFINET Standard communication module     Yes     removable terminal for control circuit     torque control     analog output     No  No  No  No  No  No  No  No  No	<ul> <li>error logbook</li> </ul>	Yes; Only in conjunction with special accessories
PROFlenergy Yes; in connection with the PROFINET Standard communication module Yes removable terminal for control circuit Yes torque control analog output No  Power Electronics  Operational current  at 40 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value 364 A 322 A at 60 °C rated value 322 A operating voltage ar 60 °C rated value at 60 °C rated value 324 A  Operating voltage ar at 60 °C rated value 325 A  at inside-delta circuit rated value 30 480 V  relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit  10 %	<ul> <li>via software parameterizable</li> </ul>	No
• firmware update • removable terminal for control circuit • torque control • analog output  No  **Ower Electronics  **Operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 40 °C rated value  **Operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value  **Operational current at inside-delta circuit • at 40 °C rated value • at 60 °C rated va	<ul> <li>via software configurable</li> </ul>	Yes
removable terminal for control circuit     torque control     analog output     No  Power Electronics  Operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 40 °C rated value     at 60 °C rated value     at 60 °C rated value     at 50 °C rated value     at 60 °C rated value     at 50 °C rated value     at 60 °C rated value     at inside-delta circuit  10 %	PROFlenergy	
torque control     analog output     No  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 40 °C rated value     at 40 °C rated value     at 50 °C rated value     at 40 °C rated value     at 40 °C rated value     at 50 °C rated value     at 40 °C rated value     at 50 °C rated value     at 50 °C rated value     at 50 °C rated value     at 60 °C rated value     at inside-delta circuit rated value     at inside-delta circuit rated value     relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit	• firmware update	Yes
analog output     Power Electronics  operational current	<ul> <li>removable terminal for control circuit</li> </ul>	Yes
operational current  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value  • at 40 °C rated value • at 60 °C rated value  • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value  • at inside-delta circuit rated value  relative negative tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  10 %	• torque control	No
operational current  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value  • at 40 °C rated value  • at 60 °C rated value  • at 40 °C rated value  • at 40 °C rated value  • at 40 °C rated value  • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value  • at 60 °C rated value  • at 60 °C rated value  • at inside-delta circuit rated value  • at inside-delta circuit rated value  relative negative tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit	analog output	No
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>170 A</li> </ul> Operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at inside-delta circuit rated value</li> <li>at inside-delta circuit rated value</li> <li>at inside-delta circuit</li> <li>at inside-delta circuit</li> <li>at inside-delta circuit</li> </ul> relative negative tolerance of the operating voltage <ul> <li>at inside-delta circuit</li> <li>at inside-delta circuit</li> </ul> relative positive tolerance of the operating voltage at inside-delta circuit <ul> <li>at 10 %</li> </ul> relative positive tolerance of the operating voltage at inside-delta circuit <ul> <li>at 10 %</li> </ul> relative positive tolerance of the operating voltage at inside-delta circuit <ul> <li>at 10 %</li> </ul> -15 % <ul> <li>at 10 %</li> </ul>	Power Electronics	
at 50 °C rated value at 60 °C rated value  operational current at inside-delta circuit  at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  at 60 °C rated value at 10 °C r	operational current	
at 60 °C rated value     operational current at inside-delta circuit         at 40 °C rated value         at 50 °C rated value         at 60 °C rated value         erated value         erated value         erated value         erated value         eration inside-delta circuit rated value         relative negative tolerance of the operating voltage         relative negative tolerance of the operating voltage         relative negative tolerance of the operating voltage         relative negative tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  10 %	<ul> <li>at 40 °C rated value</li> </ul>	210 A
operational current at inside-delta circuit  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value  • rated value • rated value • at inside-delta circuit rated value  relative negative tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  10 %	<ul> <li>at 50 °C rated value</li> </ul>	186 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operating voltage</li> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>10 %</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>10 %</li> </ul>	at 60 °C rated value	170 A
<ul> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operating voltage</li> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>10 %</li> <li>-15 %</li> <li>-15 %</li> <li>-15 %</li> <li>-15 %</li> <li>-10 %</li> <li>-10 %</li> </ul>	operational current at inside-delta circuit	
● at 60 °C rated value  operating voltage  • rated value  • at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  10 %	<ul> <li>at 40 °C rated value</li> </ul>	364 A
operating voltage  • rated value  • at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  10 %	<ul> <li>at 50 °C rated value</li> </ul>	322 A
<ul> <li>rated value</li> <li>at inside-delta circuit rated value</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>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>10 %</li> <li>10 %</li> </ul>	<ul> <li>at 60 °C rated value</li> </ul>	294 A
<ul> <li>rated value</li> <li>at inside-delta circuit rated value</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>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>10 %</li> <li>10 %</li> </ul>	operating voltage	
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit  10 %		200 480 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit  10 % 10 % 10 %	at inside-delta circuit rated value	200 480 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit  10 % 10 % 10 %	relative negative tolerance of the operating voltage	-15 %
relative negative tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  -15 %  10 %		10 %
inside-delta circuit	relative negative tolerance of the operating voltage at	-15 %
operating power for 3-phase motors		10 %
	operating power for 3-phase motors	

at 220 V at 40 °C rated value	EE LAM
<ul> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	55 kW
	110 kW
at 400 V at 40 °C rated value     at 400 V at inside delta girauit at 40 °C rated value	110 kW 200 kW
at 400 V at inside-delta circuit at 40 °C rated value  Operating frequency 4 rated value	50 Hz
Operating frequency 1 rated value  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	10 70
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
at rotary coding switch on switch position 4	114 A
at rotary coding switch on switch position 5	122 A
at rotary coding switch on switch position 6	130 A
at rotary coding switch on switch position 7	138 A
at rotary coding switch on switch position 8	146 A
at rotary coding switch on switch position 9	154 A
at rotary coding switch on switch position 10	162 A
at rotary coding switch on switch position 11	170 A
at rotary coding switch on switch position 12	178 A
at rotary coding switch on switch position 13	186 A
at rotary coding switch on switch position 14	194 A
at rotary coding switch on switch position 15	202 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	210 A
• minimum	90 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	156 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	170 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	184 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	197 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	211 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	225 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	239 A
for inside-delta circuit at rotary coding switch on switch position 8	253 A
for inside-delta circuit at rotary coding switch on switch position 9      for inside delta sizewit at rotary coding switch on switch on the sizewit at rotary coding switch on the switch on the sizewit at rotary coding switch on the switch on the sizewit at rotary coding switch on the switch of the switch on the switch of the switch on the switch of the switch of the switch on the switch of the switch on the switch of the switch of the switch of the switch of the switch on the switch of	267 A
for inside-delta circuit at rotary coding switch on switch position 10  for inside delta significant paters and instruction are	281 A
for inside-delta circuit at rotary coding switch on switch position 11  for inside delta significant paters and instruction as	294 A
for inside-delta circuit at rotary coding switch on switch position 12      for inside delta significant paters and instructions	308 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	322 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	336 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	350 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	364 A
at inside-delta circuit minimum	156 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	75 \\
at 40 °C after startup     at 50 °C after startup	75 W
<ul> <li>at 50 °C after startup</li> </ul>	68 W

at 60 °C after startup	63 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	3 562 W
<ul> <li>at 50 °C during startup</li> </ul>	2 979 W
at 60 °C during startup	2 617 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	
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	470 mA
locked-rotor current at close of bypass contact	7.6 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 digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
switching capacity current of the relay outputs	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
• at DC-13 at 24 V rated value	1 A
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	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
• downwards	75 mm
• at the side	5 mm

weight without packaging	9.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
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	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
for auxiliary and control contacts with screw-type     terminals.	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	124 210 lbf·in
for main contacts with screw-type terminals	
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in
Ambient conditions	
Allibicit colluitions	
	5 000 m; Derating as of 1000 m, see catalog
installation altitude at height above sea level maximum ambient temperature	5 000 m; Derating as of 1000 m, see catalog
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or
installation altitude at height above sea level maximum ambient temperature	
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or
installation altitude at height above sea level maximum ambient temperature  • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes  Yes  Yes
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A  Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes  Yes  Yes
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721  EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA  Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65
installation altitude at height above sea level maximum  ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721  EMC emitted interference Communication/ Protocol  communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA  Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA

according to UL

 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL

- usable for Standard Faults up to 575/600 V according to UL

- usable for High Faults up to 575/600 V according to UL

 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL

- usable for High Faults at inside-delta circuit up to 575/600 V according to UL

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA

Type: Class J / L, max. 700 A; Iq = 10 kA

Type: Class J / L, max. 700 A; Iq = 100 kA

Type: Class J / L, max. 700 A; Iq = 10 kA

Type: Class J / L, max. 700 A; Iq = 100 kA

#### operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value

 at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value

• at 200/208 V at inside-delta circuit at 50 °C rated

• at 220/230 V at inside-delta circuit at 50 °C rated value

• at 460/480 V at inside-delta circuit at 50 °C rated value

60 hp

60 hp

150 hp

100 hp

125 hp

250 hp

contact rating of auxiliary contacts according to UL R300-B300

### Safety related data

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. to IEC 60529

electromagnetic compatibility

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover

in accordance with IEC 60947-4-2

## Certificates/ approvals

## **General Product Approval**

**EMC** 

**Declaration of** Conformity













**Declaration of** Conformity

**Test Certificates** 

Marine / Shipping

**UK Declaration of** Conformity

Type Test Certificates/Test Report









Marine / Shipping

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=3RW5243-6TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5243-6TC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5243-6TC04&lang=en

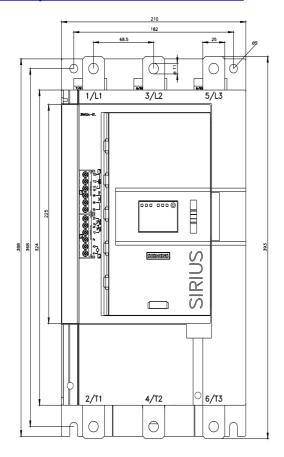
Characteristic: Tripping characteristics, I²t, Let-through current <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC04/char">https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC04/char</a>

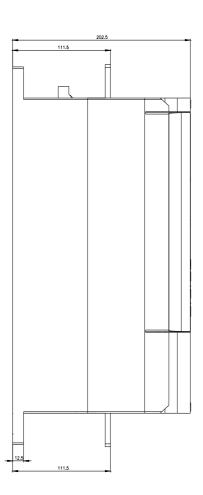
Characteristic: Installation altitude

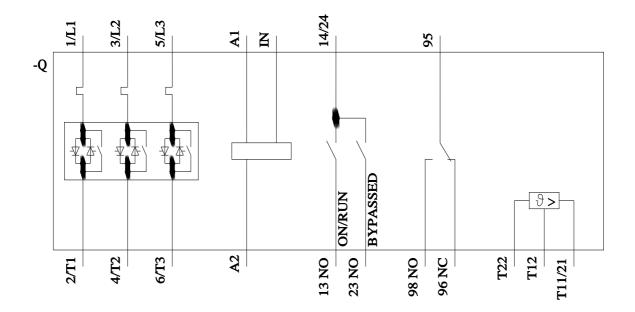
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5243-6TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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