## **SIEMENS**

3RW5075-6TB04 **Data sheet** 



SIRIUS soft starter 200-480 V 370 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	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS01
<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>	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; 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>	3NE1 334-2; 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>	3NE3 336; Type of coordination 2, Iq = 65 kA
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1075</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1075</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
accuracy class according to IEC 61557-12	5 %
certificate of suitability	
<ul> <li>CE marking</li> </ul>	Yes
<ul><li>UL approval</li></ul>	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2

buffering time in the event of power failure  • for rounted circuit  • for control circuit  • for control circuit  • for control circuit  100 ms  100 Lacch 100 ms  100 ms  100 Lacch 100 ms  100 Lacch 100 Ms  100 V  100		
for control circuit   100 ms   100 m	buffering time in the event of power failure	
Insulation voltage rated value   George of pollution   Sac. to IEC 60047.4-2   AC-Sac. t	<ul> <li>for main current circuit</li> </ul>	100 ms
degree of politution   3, acc. to IEC 60947-4-2	for control circuit	100 ms
Impulse voltage rated value   6 kV	insulation voltage rated value	600 V
blocking voltage of the thyristor maximum	degree of pollution	3, acc. to IEC 60947-4-2
surge voltage resistance rated value         6 kW           warding remissible voltage for safe isolation         6 kW           w between main and surliary circuit         500 W           shock resistance         15 g/11 ms, from 12 g/11 ms with potential contact lifting           wibration resistance         15 mm to 6 Hz; 2g to 500 Hz           utilization category according to IEC 60947-42         AC-58a           Substance Prohibitance (Date)         9023/2019           ** ramp-up (soft starting)         Yes           ** ramp-down (soft stop)         Yes           ** adjustable current limitation         Yes           ** pump ramp down         Yes           ** evaluation of themister motor protection         Yes           ** evaluation of themister motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor everload protection)           ** evaluation of themister motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor everload protection)           ** evaluation of themister motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor everload protection)           ** evaluation of themister motor protection         Yes, Full motor protection (thermistor motor protection and electronic motor everlead protection)           ** evaluation of themister motor protection         Yes, Full motor protectio	impulse voltage rated value	6 kV
surge voltage resistance rated value maximum permissible voltage for safe isolation	blocking voltage of the thyristor maximum	1 600 V
without permissible voltage for safe isolation between main and auxiliary circuit block resistance vibration vibration vibration versistance vibration vibration vibration vibration vibration resistance vibration of thermistor motor protection vibration versistance vibration vibration vibration vibration versistance protection (thermistor motor protection and electronic motor oversioad protection) vibration versistance vibration vibration versistance protection (thermistor motor protection and electronic motor oversioad protection) vibration versistance vibration of thermistor motor protection vibration versistance vibration versistance vibration of thermistor motor protection vibration versistance vibratio	service factor	1
	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           utilization category according to IEC 69147-4-2         AC-53a           reference code according to IEC 81346-2         Q           Substance Prohibitance (Pate)         90/23/2019           product function         Yes           • ramp-down (soft storting)         Yes           • soft Torque         Yes           • adjustable current limitation         Yes           • pump ramp down         Yes           • intrinsic device protection         Yes           • motor overload protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Fup A PTC or Klixon / Thermodick           • auto-RESET         Yes           • manual RESET         Yes           • remote reset         Yes; By turning off the control supply voltage           • remote reset         Yes; Unity in conjunction with special accessories           • rated value display         Yes; Only in conjunction with special accessories           • R	maximum permissible voltage for safe isolation	
vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           utilization category according to IEC 60947-4-2 reference code according to IEC 61346-2 Q         AC-53a           Substance Prohibitance (Date)         9923/2019           product function         Framp-down (soft stop)         Yes           • Soft Torque         Yes           • Soft Torque         Yes           • adjustable current limitation         Yes           • pump ramp down         Yes           • intrinsic device protection         Yes           • motor overload protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • availuation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • availuation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • availuation of thermistor motor protection         Yes; Type A PTC or Klixon / Thermoclick           • availuation of thermistor motor protection         Yes; Dys burning off the control supply voitage           • cremote reset         Yes; Dys burning off the control supply voitage           • communication function         Yes         Y	<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
utilization category according to IEC 60947-4-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) product function  • ramp-up (soft starting) • samp-down (soft stop) • Soft Torque • yes • Soft Torque • yes • John Torque • pump ramp down • intrinsic device protection • evaluation of thermistor motor protection • workload protection • evaluation of thermistor motor protection (thermistor motor protection and electronic motor overload protection)  • evaluation of thermistor motor protection • yes; Torly in conjunction with special accessories • valuation of the protection • yes; Only in conjunction with special accessories • yes; Only in conjunction w	shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
reference code according to IEC 81346-2  Substance Prohibitance (Date)  • ramp-toy (soft starting) • ramp-down (soft stop) • samp-down (soft stop) • soft Torque • adjustable current limitation • pump ramp down • intrinsic device protection • nutor overload protection • nutor overload protection • evaluation of thermistor motor protection • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • resort oppose • via software configurable • via software configurable • via software configurable • voltage ramp • torque control • at 40 °C rated value • at 60 °C rated value • at 230 V at 40 °C rated value • relative positive tolerance of the operating frequency at rotary coding switch on switch position 2 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3  **Torque Code	vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
Substance Prohibitance (Date) product function  * (amp-up (soft starting)  * (amp-down (soft stop)  * (soft Torque  * adjustable current limitation  * pump ramp down  * inthrissed device protection  * motor overload protection  * motor overload protection  * evaluation of thermistor motor protection  * auto-RESET  * (manual RESET  * (memola reset)  * (memola reset)	utilization category according to IEC 60947-4-2	AC-53a
product function  • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • analual RESET • manual RESET • yes • communication function • continuous function • continu	reference code according to IEC 81346-2	Q
• ramp-up (soft starting)     • ramp-down (soft stop)     • Soft Torque     • adjustable current limitation     • pump ramp down     • motor overload protection     • motor overload protection     • evaluation of thermistor motor protection and electronic motor overload protection)     • evaluation of thermistor motor protection and electronic motor overload protection (thermistor motor protection and electronic motor overload protection)     • evaluation of thermistor motor protection and electronic motor overload protection (thermistor motor protection (thermistor motor overload protection (themistor protection and electronic motor overload protection (themistor protection and electronic motor overload protection (themistor motor overload protection and electronic motor overload protection (themistor protection (themistor protection (themistor protection) and electroni	Substance Prohibitance (Date)	09/23/2019
Famp-down (soft stop)     Soft Torque     Adjustable current limitation     Pump ramp down     Intrinsic device protection     Pes     Individual protection     Pes     Intrinsic device protection     Pes     Intrinsic device protection     Intrinsic device protection intrinsic protection (thermistor motor protection and electronic motor verelage protection (thermistor motor protection and electronic motor verelage protection (thermistor motor protection interior very Eyes; Pys A PTC or Kilxon / Thermodick     Yes; Pys A PTC or Kilxon / Thermodick     Yes; Dy Ly and PTC or Kilxon / Thermodick     Intrinsical protection interior protection interior very Eyes; Dy Ly and PTC or Kilxon / Thermodick     Intrinsical protection with special accessories     Ves; Dy Intrinsical protection with special accessories     Ves; Dy Intrinsical protection with special accessories     Ves; Only in conjunction with special accessories     Ves; Only in conjunction with special accessories     Ves; Only in conjunction with special accessories     Ves; Only in co	product function	
Famp-down (soft stop)     Soft Torque     Adjustable current limitation     Pump ramp down     Intrinsic device protection     Pes     Individual protection     Pes     Intrinsic device protection     Pes     Intrinsic device protection     Intrinsic device protection intrinsic protection (thermistor motor protection and electronic motor verelage protection (thermistor motor protection and electronic motor verelage protection (thermistor motor protection interior very Eyes; Pys A PTC or Kilxon / Thermodick     Yes; Pys A PTC or Kilxon / Thermodick     Yes; Dy Ly and PTC or Kilxon / Thermodick     Intrinsical protection interior protection interior very Eyes; Dy Ly and PTC or Kilxon / Thermodick     Intrinsical protection with special accessories     Ves; Dy Intrinsical protection with special accessories     Ves; Dy Intrinsical protection with special accessories     Ves; Only in conjunction with special accessories     Ves; Only in conjunction with special accessories     Ves; Only in conjunction with special accessories     Ves; Only in co	• ramp-up (soft starting)	Yes
Soft Torque adjustable current limitation pump ramp down printinsic device protection printinsic device protection protor overload protection ves: Full motor protection (thermistor motor protection and electronic motor overload protection)  evaluation of thermistor motor protection protor verload protection ves: Type A PTC or Klixon / Thermoclick ves: Full motor protection (thermistor motor protection and electronic motor overload protection)  evaluation of thermistor motor protection ves: Type A PTC or Klixon / Thermoclick ves: Type A PTC or Klixon / Thermoc		Yes
adjustable current limitation pump ramp down pramp down printings device protection protor overload protection  evaluation of thermistor motor protection protor overload protection (thermistor motor protection and electronic motor overload protection)  evaluation of thermistor motor protection protor overload protection  ves; Full motor protection (thermistor motor protection and electronic motor overload protection)  evaluation of thermistor motor protection  protor overload protor overload protection  protor overload pr		Yes
• Intrinsic device protection • motor overload protection • motor overload protection • resistance of the mistor motor protection • evaluation of thermistor motor protection • auto-RESET • manual RESET • manual RESET • remote reset • communication function • operating measured value display • error logbook • via software parameterizable • via software parameterizable • via software parameterizable • voltage ramp • voltage ramp • voltage ramp • torque control • analog output • voltage ramp • torque control • analog output • voltage ramp • torque control • analog output • or Trated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at 230 V at 40 °C rated value • at 40 °C rated v	adjustable current limitation	Yes
intrinsic device protection motor overload protection motor overload protection evaluation of thermistor motor protection evaluation of thermistor motor protection auto-RESET emanual RESET emanual RESET rese remote reset communication function eperating measured value display error logbook via software parameterizable via software configurable evaluation voltage ramp voltage rated value e at 40 °C rated value e at 60 °C rated value e at 230 V at 40 °C rated value e at 400 °C rated value	pump ramp down	Yes
motor overload protection     evaluation of thermistor motor protection     evaluation of thermistor motor protection     euato-RESET     manual RESET     *manual RESET     *remote reset     *cember reset     *communication function     *eyes; By turning off the control supply voltage     *communication function     *ves     *communication function     *ves     *communication function     *ves     *ves     *ves; Only in conjunction with special accessories     *via software parameterizable     *via software parameterizable     *via software configurable     *ves     *PROFlenergy     *voltage ramp     *voltage ra		Yes
auto-RESET  manual RESET  remote reset  remote reset  communication function  operating measured value display  error logbook  via software parameterizable  via software configurable  voltage ramp  torque control  analog output  Power Electronics  operating voltage  at 60 °C rated value  at 60 °C rated value  operating voltage  relative positive tolerance of the operating voltage  relative positive tolerance of the operating frequency  relative negative tolerance of the operating frequency  relative regositive tolerance of the operating frequency  relative positive tolerance of the operating frequency  at rotary coding switch on switch position 1  at rotary coding switch on switch position 2  at rotary coding switch on switch position 3	motor overload protection	
auto-RESET  manual RESET  remote reset  remote reset  communication function  operating measured value display  error logbook  via software parameterizable  via software configurable  voltage ramp  torque control  analog output  Power Electronics  operating voltage  at 60 °C rated value  at 60 °C rated value  operating voltage  relative positive tolerance of the operating voltage  relative positive tolerance of the operating frequency  relative negative tolerance of the operating frequency  relative regositive tolerance of the operating frequency  relative positive tolerance of the operating frequency  at rotary coding switch on switch position 1  at rotary coding switch on switch position 2  at rotary coding switch on switch position 3	<ul> <li>evaluation of thermistor motor protection</li> </ul>	
remote reset	auto-RESET	Yes
communication function     operating measured value display     error logbook     via software parameterizable     via software parameterizable     via software configurable     voltage ramp     Ves     ves; in connection with the PROFINET Standard communication module     voltage ramp     Ves     torque control     analog output     No     No     analog output  Power Electronics  Operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     are davalue     orated value     erated value     erated value     erated value     erated value     operating voltage     erated value     relative positive tolerance of the operating voltage     at 230 V at 40 °C rated value     at 230 V at 40 °C rated value     at 230 V at 40 °C rated value     operating frequency 1 rated value     operating frequency 1 rated value     operating frequency 2 rated value     eat 400 V at 40 °C rated value     operating frequency 1 rated value     operating frequency 2 rated value     operating frequency 2 rated value     operating frequency 2 rated value     at 700 W  relative positive tolerance of the operating frequency     relative positive tolerance of the operating frequency     relative positive tolerance of the operating frequency     adjustable motor current     at rotary coding switch on switch position 1     at rotary coding switch on switch position 2     at rotary coding switch on switch position 3     188 A	manual RESET	Yes
operating measured value display     error logbook     via software parameterizable     via software configurable     via software configurable     via software configurable     via software configurable     ves in connection with the PROFINET Standard communication module     voltage ramp     voltage ramp     voltage ramp     torque control     analog output     No     analog output  Power Electronics  Operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     are do value     verated val	remote reset	Yes; By turning off the control supply voltage
<ul> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>PROFlenergy</li> <li>Ves; in connection with the PROFINET Standard communication module</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>No</li> <li>analog output</li> <li>No</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 200 480 V</li> <li>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage</li> <li>at 230 V at 40 °C rated value</li> <li>at 200 kW</li> <li>Operating frequency 1 rated value</li> <li>at 40 °C rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>at 40 °C rated value</li> <li>50 Hz</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>relative negative tolerance of the operating frequency</li> <li>at 70 %</li> <li>relative negative tolerance of the operating frequency</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul>	communication function	Yes
<ul> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>PROFlenergy</li> <li>Ves; in connection with the PROFINET Standard communication module</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>No</li> <li>analog output</li> <li>No</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 200 480 V</li> <li>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage</li> <li>at 230 V at 40 °C rated value</li> <li>at 200 kW</li> <li>Operating frequency 1 rated value</li> <li>at 40 °C rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>at 40 °C rated value</li> <li>50 Hz</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>relative negative tolerance of the operating frequency</li> <li>at 70 %</li> <li>relative negative tolerance of the operating frequency</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul>	operating measured value display	Yes; Only in conjunction with special accessories
via software configurable     PROFlenergy     Yes; in connection with the PROFINET Standard communication module     voltage ramp     • torque control     • analog output     No  Power Electronics  operational current     • at 40 °C rated value     • at 60 °C rated value     • at 230 °C rated value     • relative negative tolerance of the operating voltage     relative positive tolerance of the operating voltage     • at 230 °C rated value     • at 40 °C rated value     • Operating frequency 1 rated value     • at 40 °C rated value     • at 60 °C rat		Yes; Only in conjunction with special accessories
PROFlenergy Yes; in connection with the PROFINET Standard communication module 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 300 A  Operating voltage a rated value 200 480 V  relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at 230 V at 40 °C rated value 110 kW at 400 °C rated value 200 kW  Operating frequency 1 rated value 200 kW  Operating frequency 2 rated value 400 V at 40 °C rated value 50 Hz  Operating frequency 2 rated value 40 V at 40 °C rated value 50 Hz  Operating frequency 2 rated value 40 V at 40 °C rated value 50 Hz  Operating frequency 2 rated value 41 V W 42 V V V V V V V V V V V V V V V V V V V	<ul> <li>via software parameterizable</li> </ul>	No
module  • voltage ramp • torque control • analog output  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 40 °C rated value • at 60 °C rated value • at 60 °C rated value • relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage  10 %  operating power for 3-phase motors • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  of 0 Hz  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency 10 %  relative negative tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3  188 A	<ul> <li>via software configurable</li> </ul>	Yes
<ul> <li>torque control</li> <li>analog output</li> <li>No</li> <li>Power Electronics</li> <li>operational current <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>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage</li> <li>at 230 V at 40 °C rated value</li> <li>operating power for 3-phase motors</li> <li>at 230 V at 40 °C rated value</li> <li>operating frequency 1 rated value</li> <li>operating frequency 1 rated value</li> <li>operating frequency 2 rated value</li> <li>operative negative tolerance of the operating frequency</li> <li>relative negative tolerance of the operating frequency</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 3</li> </ul> </li> </ul>	PROFlenergy	and a short a
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     operating voltage     erated value     relative negative tolerance of the operating voltage     relative positive tolerance of the operating voltage     operating power for 3-phase motors     eat 230 V at 40 °C rated value     at 400 V at 40 °C rated value     operating frequency 1 rated value     operating frequency 2 rated value     operating frequency 3 rated value     operating frequency 4 rated value     operating frequency 50 Hz     operating frequency 60 Hz     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     adjustable motor current     e at rotary coding switch on switch position 1     e at rotary coding switch on switch position 2     e at rotary coding switch on switch position 3     188 A	voltage ramp	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  operating voltage • rated value  relative negative tolerance of the operating voltage  operating power for 3-phase motors • at 230 V at 40 °C rated value  operating frequency 1 rated value  Operating frequency 2 rated value  folo Hz  relative positive tolerance of the operating frequency  adjustable motor current  • at rotary coding switch on switch position 1  • at rotary coding switch on switch position 2  • at rotary coding switch on switch position 3  • at rotary coding switch on switch position 3  • at rotary coding switch on switch position 3	<ul> <li>torque control</li> </ul>	No
operational current  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value  • rated value  • rated value  • rated value  • relative negative tolerance of the operating voltage  operating power for 3-phase motors • at 230 V at 40 °C rated value  • at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  operating requency 2 rated value  operating frequency 3 rated value  operating frequency 4 rated value  operating frequency 50 Hz  Operating frequency 60 Hz  relative negative tolerance of the operating frequency  adjustable motor current  • at rotary coding switch on switch position 1  • at rotary coding switch on switch position 2  • at rotary coding switch on switch position 3  188 A	analog output	No
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>328 A</li> <li>at 60 °C rated value</li> <li>300 A</li> </ul> Operating voltage <ul> <li>rated value</li> <li>200 480 V</li> </ul> relative negative tolerance of the operating voltage <ul> <li>relative positive tolerance of the operating voltage</li> <li>operating power for 3-phase motors</li> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> </ul> relative negative tolerance of the operating frequency <ul> <li>relative positive tolerance of the operating frequency</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul>	Power Electronics	
<ul> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>300 A</li> </ul> Operating voltage <ul> <li>rated value</li> <li>200 480 V</li> </ul> relative negative tolerance of the operating voltage <ul> <li>-15 %</li> </ul> relative positive tolerance of the operating voltage <ul> <li>0 %</li> </ul> Operating power for 3-phase motors <ul> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>50 Hz</li> </ul> Operating frequency 1 rated value <ul> <li>50 Hz</li> </ul> Operating frequency 2 rated value <ul> <li>60 Hz</li> </ul> relative negative tolerance of the operating frequency <ul> <li>-10 %</li> </ul> relative positive tolerance of the operating frequency <ul> <li>10 %</li> </ul> adjustable motor current <ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul>	operational current	
<ul> <li>at 60 °C rated value</li> <li>operating voltage <ul> <li>rated value</li> <li>200 480 V</li> </ul> </li> <li>relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 10 %  operating power for 3-phase motors  <ul> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>50 Hz</li> </ul> </li> <li>Operating frequency 1 rated value</li> <li>50 Hz</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>at rotary coding switch on switch position 1  <ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul> </li> </ul>	• at 40 °C rated value	370 A
operating voltage	• at 50 °C rated value	328 A
e rated value  relative negative tolerance of the operating voltage  relative positive tolerance of the operating voltage  operating power for 3-phase motors  e at 230 V at 40 °C rated value  ot 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  ot 200 kW  Operating frequency 2 rated value  60 Hz  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  adjustable motor current  e at rotary coding switch on switch position 1  at rotary coding switch on switch position 2  e at rotary coding switch on switch position 3  188 A	• at 60 °C rated value	300 A
relative negative tolerance of the operating voltage  relative positive tolerance of the operating voltage  operating power for 3-phase motors  • at 230 V at 40 °C rated value  • at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  foo Hz  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  adjustable motor current  • at rotary coding switch on switch position 1  • at rotary coding switch on switch position 2  • at rotary coding switch on switch position 3  188 A	operating voltage	
relative positive tolerance of the operating voltage  operating power for 3-phase motors  • at 230 V at 40 °C rated value  • at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  felative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current  • at rotary coding switch on switch position 1  • at rotary coding switch on switch position 2  • at rotary coding switch on switch position 3  188 A	rated value	200 480 V
operating power for 3-phase motors  • at 230 V at 40 °C rated value  • at 400 V at 40 °C rated value  200 kW  Operating frequency 1 rated value  50 Hz  Operating frequency 2 rated value  60 Hz  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current  • at rotary coding switch on switch position 1  • at rotary coding switch on switch position 2  • at rotary coding switch on switch position 3  188 A	relative negative tolerance of the operating voltage	-15 %
<ul> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>200 kW</li> <li>Operating frequency 1 rated value</li> <li>50 Hz</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>adjustable motor current</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul>	relative positive tolerance of the operating voltage	10 %
<ul> <li>at 400 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>adjustable motor current</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul>	operating power for 3-phase motors	
Operating frequency 1 rated value  Operating frequency 2 rated value  60 Hz  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current  • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3  188 A	<ul> <li>at 230 V at 40 °C rated value</li> </ul>	110 kW
Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current  • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3  188 A	at 400 V at 40 °C rated value	200 kW
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current  • at rotary coding switch on switch position 1 160 A • at rotary coding switch on switch position 2 174 A • at rotary coding switch on switch position 3 188 A	Operating frequency 1 rated value	50 Hz
relative positive tolerance of the operating frequency adjustable motor current  • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3  • at rotary coding switch on switch position 3	Operating frequency 2 rated value	60 Hz
<ul> <li>adjustable motor current</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>188 A</li> </ul>	relative negative tolerance of the operating frequency	-10 %
<ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>160 A</li> <li>174 A</li> <li>188 A</li> </ul>	relative positive tolerance of the operating frequency	10 %
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>174 A</li> <li>188 A</li> </ul>	adjustable motor current	
• at rotary coding switch on switch position 3 188 A	<ul> <li>at rotary coding switch on switch position 1</li> </ul>	160 A
	<ul> <li>at rotary coding switch on switch position 2</li> </ul>	174 A
• at rotary coding switch on switch position 4 202 A	<ul> <li>at rotary coding switch on switch position 3</li> </ul>	188 A
	<ul> <li>at rotary coding switch on switch position 4</li> </ul>	202 A

<ul> <li>at rotary coding switch on switch position 5</li> </ul>	
at rotary county switch on switch position 5	216 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	230 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	244 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	258 A
at rotary coding switch on switch position 9	272 A
at rotary coding switch on switch position 10     at rotary coding switch on switch position 10	286 A
,	
at rotary coding switch on switch position 11	300 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	314 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	328 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	342 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	356 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	370 A
• minimum	160 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
at 40 °C after startup	36 W
at 50 °C after startup	29 W
at 60 °C after startup	24 W
power loss [W] at AC at current limitation 350 %	LT 11
	2.706 M
• at 40 °C during startup	3 726 W
<ul> <li>at 50 °C during startup</li> </ul>	3 124 W
at 60 °C during startup	2 748 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply	-20 %
voltage at AC at 50 Hz	20 /0
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply	-20 %
voltage at AC at 60 Hz	
	20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 //
	50 60 Hz
voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply	
voltage at AC at 60 Hz control supply voltage frequency	50 60 Hz
voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply	50 60 Hz
voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply	50 60 Hz -10 %
voltage at AC at 60 Hz  control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency	50 60 Hz -10 %
voltage at AC at 60 Hz  control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage  • at DC rated value relative negative tolerance of the control supply	50 60 Hz -10 %
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply	50 60 Hz -10 % 10 %
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC	50 60 Hz -10 % 10 % 24 V -20 %
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value	50 60 Hz -10 % 10 % 24 V -20 % 20 %
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value	50 60 Hz -10 % 10 % 24 V -20 % 20 %
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA 7.6 A
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA 7.6 A  3.3 A
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA 7.6 A  3.3 A  12.1 ms
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage design of the overvoltage protection	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA 7.6 A  3.3 A  12.1 ms  Varistor  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
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage design of the overvoltage protection  design of short-circuit protection for control circuit	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA 7.6 A  3.3 A  12.1 ms  Varistor  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
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  Inputs/ Outputs number of digital inputs	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA 7.6 A  3.3 A  12.1 ms  Varistor  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
voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage design of the overvoltage protection  design of short-circuit protection for control circuit	50 60 Hz -10 %  10 %  24 V -20 %  20 %  160 mA 490 mA 7.6 A  3.3 A  12.1 ms  Varistor  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

diaital autout vanais	O normally on an equipode (NO) (4 -b
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
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	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	230 mm
width	160 mm
depth	282 mm
required spacing with side-by-side mounting	
<ul><li>forwards</li></ul>	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
<ul><li>downwards</li></ul>	75 mm
• at the side	5 mm
weight without packaging	7.3 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
• for control circuit	screw-type terminals
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm
wire length for thermistor connection	The state of the s
with conductor cross-section = 0.5 mm² maximum	50 m
with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum	150 m
	250 m
with conductor cross-section = 2.5 mm² maximum	250 III
type of connectable conductor cross-sections	05 0002
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	95 300 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	70 240 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> </ul>	70 240 mm²
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	95 300 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	3/0 600 kcmil
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	120 240 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	250 500 kcmil
for main contacts for box terminal using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²
for main contacts for box terminal using both clamping points stranded	min. 2x 70 mm², max. 2x 240 mm²
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	120 185 mm²
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> </ul>	120 185 mm²
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	120 240 mm²
<ul> <li>type of connectable conductor cross-sections</li> <li>at AWG cables for main current circuit solid</li> </ul>	2/0 500 kcmil

a for DIN poble lug for main contacta atractal	E0 240 mm <sup>2</sup>
for DIN cable lug for main contacts stranded	50 240 mm²
for DIN cable lug for main contacts finely stranded      type of connectable conductor errors costions	70 240 mm²
type of connectable conductor cross-sections	4 × /0 F
• for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables for control circuit solid	1, (20 12) 2, (20 14)
	1x (20 12), 2x (20 14)
wire length	000
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	1 000 m
tightening torque	44 04 N
for main contacts with screw-type terminals	14 24 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	124 210 lbf·in
for auxiliary and control contacts with screw-type	7 10.3 lbf·in
terminals	7 10.0 IST III
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
ambient temperature	,
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
- aa3 opo.a	above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
- -	mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	not get inside the devices), 1M4
during transport according 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	
communication module is supported  • PROFINET standard	Yes
	Yes Yes
PROFINET standard	
<ul><li>PROFINET standard</li><li>EtherNet/IP</li></ul>	Yes
<ul><li>PROFINET standard</li><li>EtherNet/IP</li><li>Modbus RTU</li></ul>	Yes Yes
<ul> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> </ul>	Yes Yes Yes
<ul> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul>	Yes Yes Yes
<ul> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> UL/CSA ratings	Yes Yes Yes
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number	Yes Yes Yes
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL	Yes Yes Yes Yes Yes Yes Type: Class L, max. 1200 A; Iq = 18 kA
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V	Yes Yes Yes Yes Yes
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL	Yes Yes Yes Yes Yes Yes Type: Class L, max. 1200 A; Iq = 18 kA
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  at 200/208 V at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; lq = 18 kA  Type: Class L, max. 1200 A; lq = 100 kA
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  operating power [hp] for 3-phase motors  at 200/208 V at 50 °C rated value  at 460/480 V at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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  safety related data	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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  safety related data  protection class IP on the front according to IEC	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; lq = 18 kA  Type: Class L, max. 1200 A; lq = 100 kA
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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  Total value  Safety related data  protection class IP on the front according to IEC 60529	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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  safety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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  Safety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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  Tatelor of suitability  ATEX  certificate of suitability	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover  finger-safe, for vertical contact from the front with cover
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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 460/480 V at 50 °C rated value  at 460/480 V at 50 °C rated value  To at 460/480 V at 50 °C rated value  at 460/480 V at 50 °C rated value  at 460/480 V at 50 °C rated value  Safety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  certificate of suitability  ATEX	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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 460/480 V at 50 °C rated value  at 460/480 V at 50 °C rated value  Afety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  certificate of suitability  ATEX  IECEX	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover  Yes Yes
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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 460/480 V at 50 °C rated value  at 460/480 V at 50 °C rated value  Afety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  certificate of suitability  ATEX  IECEX  hardware fault tolerance according to IEC 61508	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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 460/480 V at 50 °C rated value  At 460/29  Touch protection on the front according to IEC 60529  ATEX  certificate of suitability  ATEX  IECEX  hardware fault tolerance according to IEC 61508 relating to ATEX	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover  Yes Yes 0
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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 460/480 V at 50 °C rated value  at 460/480 V at 50 °C rated value  Afety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  certificate of suitability  ATEX  IECEX  hardware fault tolerance according to IEC 61508	Yes Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover  Yes Yes
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  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 460/480 V at 50 °C rated value  At 460/529  touch protection on the front according to IEC 60529  ATEX  certificate of suitability  ATEX  IECEX  hardware fault tolerance according to IEC 61508  relating to ATEX  PFDavg with low demand rate according to IEC 61508	Yes Yes Yes Yes  Type: Class L, max. 1200 A; Iq = 18 kA  Type: Class L, max. 1200 A; Iq = 100 kA  100 hp 125 hp 250 hp  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover  Yes Yes 0

relating to ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 y

## Certificates/ approvals

## **General Product Approval**

For use in hazardous locations





Confirmation







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

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







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=3RW5075-6TB04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5075-6TB04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6TB04

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5075-6TB04\&lang=en}}$ 

Characteristic: Tripping characteristics, I2t, Let-through current

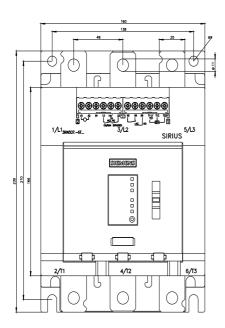
https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6TB04/char

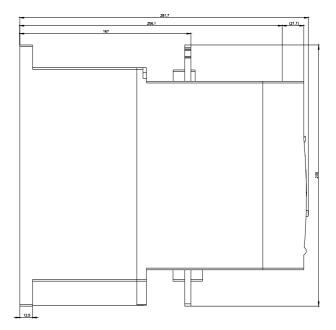
Characteristic: Installation altitude

 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5075-6TB04\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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





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