SIEMENS

Data sheet

3RW5075-6TB04



SIRIUS soft starter 200-480 V 370 A, 24 V AC/DC Screw terminals Thermistor input

Figure	similar
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product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW50			
manufacturer's article number				
 of standard HMI module usable 	<u>3RW5980-0HS01</u> <u>3RW5980-0HF00</u>			
 of high feature HMI module usable 				
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>			
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>			
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>			
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>			
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>			
• of circuit breaker usable at 400 V <u>3VA2580-6HN32-0AA0; Type of assignment 1, lq = 65 kA</u>				
 of circuit breaker usable at 500 V 	<u>3VA2580-6HN32-0AA0: Type of assignment 1, lq = 65 kA</u>			
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 334-2; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 336; Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1075</u>			
 of line contactor usable up to 690 V 	<u>3RT1075</u>			
General technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 50 %			
start-up ramp time of soft starter	0 20 s			
ramp-down time of soft starter	0 20 s			
current limiting value [%] adjustable	130 700 %			
accuracy class acc. to IEC 61557-12	5 %			
certificate of suitability				
CE marking	Yes			
UL approval	Yes			
CSA approval	Yes			
product component is supported				
HMI-Standard	Yes			
HMI-High Feature	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	2			

trip class CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2 buffering time in the event of power failure for nain current circuit 100 ms insultation voltage rated value 600 V degree of pollution 3, acc. to IEC 60947-4-2 impulso voltage rated value 6kV blocking voltage of the thyristor maximum 1800 V service factor 1 surge voltage resistance rated value 6kV maximum permissible voltage for safe isolation between main and auxiliary circuit 600 V shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Vibration resistance Vibration resistance Vibration resistance Vibration resistance Vibration resistance Vibration resistance Yes ramp-down (soft stop) Yes soft forque yes Full motor protection (thermistor motor protection and electronic motor protection motor protection (thermistor motor protection and electronic motor diversion diversion) evaluation of thermistor motor protection Yes remode reset ves (roll pring down Yes (roll pring down) Yes (roll pring down) evaluation of thermistor motor protection ves (roll pring down) evaluation of theremister motor protection evaluatin of thermistor m		
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Substance Prohibitance (Date) 23.09.2019 00:00:00 product function Yes • ramp-up (soft starting) 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; Type A PTC or Klixon / Thermoclick • auto-RESET Yes • manual RESET Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • error logbook Yes; Ionly in conjunction with special accessories • via software parameterizable No • via software configurable Yes • voltage ramp Yes • torque control No • analog output No Power Electronics 370 A • at 40 °C rated value 370 A • at 50 °C rated value 300 A	vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
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• analog outputNoPower Electronicsoperational current• at 40 °C rated value370 A• at 50 °C rated value328 A• at 60 °C rated value300 A	 voltage ramp 	Yes
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• at 40 °C rated value370 A• at 50 °C rated value328 A• at 60 °C rated value300 A	Power Electronics	
at 50 °C rated value 328 A at 60 °C rated value 300 A	operational current	
• at 60 °C rated value 300 A	 at 40 °C rated value 	370 A
		300 A
operating voltage	operating voltage	
• rated value 200 480 V		
relative negative tolerance of the operating voltage -15 %	relative negative tolerance of the operating voltage	
relative positive tolerance of the operating voltage 10 %		10 %
operating power for 3-phase motors		
• at 230 V at 40 °C rated value 110 kW		
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 -10 %		
relative positive tolerance of the operating frequency 10 %		10 %
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	 at rotary coding switch on switch position 3 	188 A

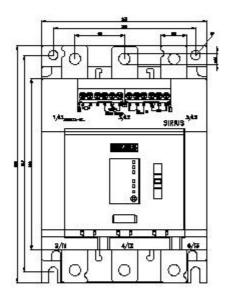
 at rotary coding switch on switch position 4 	202 A		
 at rotary coding switch on switch position 5 	216 A		
 at rotary coding switch on switch position 6 	230 A		
 at rotary coding switch on switch position 7 	244 A		
 at rotary coding switch on switch position 8 	258 A		
 at rotary coding switch on switch position 9 	272 A		
 at rotary coding switch on switch position 10 	286 A		
 at rotary coding switch on switch position 11 	300 A		
 at rotary coding switch on switch position 12 	314 A		
 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 	328 A		
 at rotary coding switch on switch position 14 	342 A		
• at rotary coding switch on switch position 15 356 A			
 at rotary coding switch on switch position 16 	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 50 °C after startup	29 W		
•			
power loss [W] at AC at current limitation 350 %	2.726 M		
• at 40 °C during startup	3 726 W		
• at 50 °C during startup	3 124 W 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	2414		
• 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	20 %		
voltage at AC at 50 Hz			
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	-20 %		
voltage at DC			
relative positive tolerance of the control supply voltage at DC	20 %		
control supply current in standby mode rated value	160 mA		
holding current in bypass operation rated value	490 mA		
locked-rotor current at close of bypass contact maximum	7.6 A		
inrush current peak at application of control supply voltage maximum	3.3 A		
duration of inrush current peak at application of control supply voltage	12.1 ms		
design of the overvoltage protection	Varistor		
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply		
Inputs/ Outputs	,		

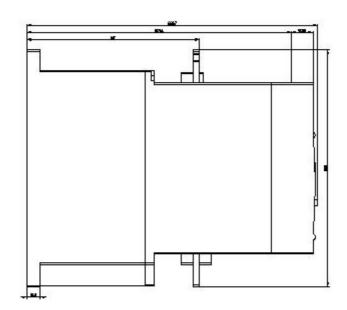
number of digital inputs	1
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
switching capacity current of the relay 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	
 forwards 	10 mm
backwards	0 mm
upwards	100 mm
downwards	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	45 mm
wire length for thermistor connection	
 with conductor cross-section = 0.5 mm² maximum 	50 m
 with conductor cross-section = 1.5 mm² maximum 	150 m
 with conductor cross-section = 2.5 mm² maximum 	250 m
type of connectable conductor cross-sections	
 for main contacts for box terminal using the front clamping point solid 	95 300 mm²
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point stranded 	95 300 mm²
 at AWG cables for main contacts for box terminal using the front clamping point 	3/0 600 kcmil
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²
 at AWG cables for main contacts for box terminal using the back clamping point 	250 500 kcmil
 for main contacts for box terminal using both clamping points solid 	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	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
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	120 185 mm²

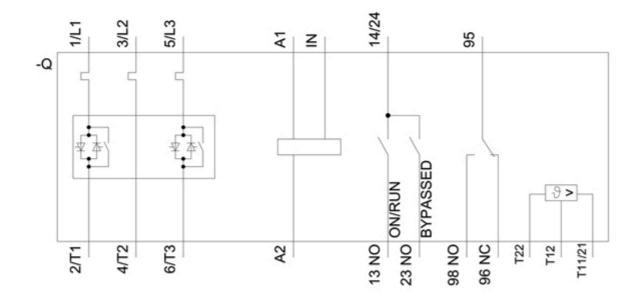
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	120 185 mm²
 for main contacts for box terminal using the back clamping point stranded 	120 240 mm²
type of connectable conductor cross-sections	
 at AWG cables for main current circuit solid 	2/0 500 kcmil
 for DIN cable lug for main contacts stranded 	50 240 mm²
 for DIN cable lug for main contacts finely stranded 	70 240 mm ²
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end 	$1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$
processing	TX (0.5 2.5 mm), 2X (0.5 1.5 mm)
 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 	1 000 m
	1000 m
tightening torque	14 24 N·m
 for main contacts with screw-type terminals for auxiliary and control contacts with screw type 	
 for auxiliary and control contacts with screw-type terminals 	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	
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
	above
 during storage and transport 	-40 +80 °C
environmental category	
during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
	mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
 PROFINET standard 	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
• of the fuse	
— usable for Standard Faults up to 575/600 V	Type: Class L, max. 1200 A; lg = 18 kA
according to UL	·) · · · · · · · · · · · · · · · · ·
 — usable for High Faults up to 575/600 V according to UL 	Type: Class L, max. 1200 A; lq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	100 hp
 at 220/230 V at 50 °C rated value 	125 hp
• at 460/480 V at 50 °C rated value	250 hp
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
ATEX	

certificate of suitabil	ity					
		Yes	Yes			
		Yes				
hardware fault tolera ATEX	nce acc. to IEC 6150	8 relating to	0			
PFDavg with low der relating to ATEX	nand rate acc. to IEC	61508	0.09			
PFHD with high dem to ATEX	and rate acc. to EN 6	2061 relating	0.000	009 1/h		
Safety Integrity Leve to ATEX	I (SIL) acc. to IEC 61	508 relating	SIL1			
T1 value for proof test IEC 61508 relating to		life acc. to	3 у			
Certificates/ approvals	;					
General Product Ap	proval				For use in hazardou	is locations
(Step		UL UL		EAC	IECEX	K ATEX
Declaration of Confe	ormity	Test Certifica	ates	other		
<u>Miscellaneous</u>	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		<u>Confirmation</u>		

urthe	er information
Info	mation- and Downloadcenter (Catalogs, Brochures,)
https	://www.siemens.com/ic10
Indu	stry 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
Serv	rice&Support (Manuals, Certificates, Characteristics, FAQs,)
https	:://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6TB04
	ge database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http:/	//www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5075-6TB04⟨=en
Cha	racteristic: Tripping characteristics, I ² t, Let-through current
<u>https</u>	://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6TB04/char
Cha	racteristic: Installation altitude
http:/	//www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5075-6TB04&objecttype=14&gridview=view1
	ulation Tool for Soft Starters (STS)
https	://support.industry.siemens.com/cs/ww/en/view/101494917







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