SIEMENS

Data sheet

3RW5072-6TB04



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	3RW50			
manufacturer's article number				
 of standard HMI module usable 	<u>3RW5980-0HS01</u>			
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 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 	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA			
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA			
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 230-2; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 333; Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1064</u>			
 of line contactor usable up to 690 V 	<u>3RT1064</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 %			
certificate of suitability				
CE marking	Yes			
UL approval	Yes			
CSA approval	Yes			
product component				
HMI-High Feature	No			
 is supported HMI-Standard 	Yes			
 is supported HMI-High Feature 	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	2			
buffering time in the event of power failure				



 for main current circuit 	100 ms			
for control circuit	100 ms			
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				
service factor	1 600 V			
	1 6 KV			
surge voltage resistance rated value maximum permissible voltage for protective separation	0.00			
between main and auxiliary circuit	600.1/			
shock resistance	600 V			
	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
utilization category according to IEC 60947-4-2	AC-53a			
reference code according to IEC 81346-2	Q 00/02/0040			
Substance Prohibitance (Date)	09/23/2019			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dicyclohexyl phthalate (DCHP) - 84-61-7			
product function				
 ramp-up (soft starting) 	Yes			
 ramp-down (soft stop) 	Yes			
Soft Torque	Yes			
 adjustable current limitation 	Yes			
 pump ramp down 	Yes			
 intrinsic device protection 	Yes			
 motor overload protection 	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)			
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick			
auto-RESET	Yes			
manual RESET	Yes			
remote reset	Yes; By turning off the control supply voltage			
 communication function 	Yes			
 operating measured value display 	Yes; Only in conjunction with special accessories			
error logbook	Yes; Only in conjunction with special accessories			
 via software parameterizable 	No			
 via software configurable 	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard communication module			
voltage ramp	Yes			
torque control	No			
analog output	No			
Power Electronics				
operational current				
• at 40 °C rated value	210 A			
• at 50 °C rated value	186 A			
• at 60 °C rated value	170 A			
operating voltage				
rated value	200 480 V			
relative negative tolerance of the operating voltage	-15 %			
relative positive tolerance of the operating voltage	10 %			
operating power for 3-phase motors				
• at 230 V at 40 °C rated value	55 kW			
• at 400 V at 40 °C rated value	110 kW			
Operating frequency 1 rated value	50 Hz			
Operating frequency 2 rated value	60 Hz			
relative negative tolerance of the operating frequency	-10 %			
relative positive tolerance of the operating frequency	10 %			
adjustable motor current				
• at rotary coding switch on switch position 1	90 A			

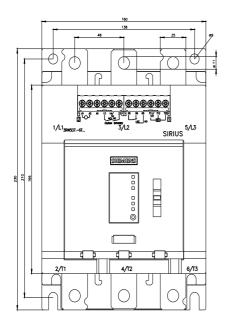
 at rotary coding switch on switch position 2 	98 A
 at rotary coding switch on switch position 3 	106 A
 at rotary coding switch on switch position 4 	114 A
 at rotary coding switch on switch position 5 	122 A
 at rotary coding switch on switch position 6 	130 A
 at rotary coding switch on switch position 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
	202 A 210 A
 at rotary coding switch on switch position 16 	
• minimum	90 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	40.101
• at 40 °C after startup	16 W
at 50 °C after startup	13 W
at 60 °C after startup	11 W
power loss [W] at AC at current limitation 350 %	0.007.10/
at 40 °C during startup	2 237 W
• at 50 °C during startup	1 867 W
at 60 °C during startup	1 637 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
	24 V
at 60 Hz rated value	
• at 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative negative tolerance of the control supply voltage at	
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at	-20 %
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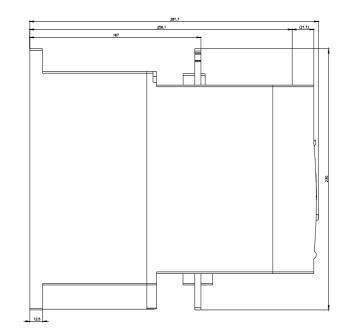
not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs				
switching capacity current of the relay outputs				
at AC-15 at 250 V rated value	3 A			
at DC-13 at 24 V rated value	1A			
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
height	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	35 mm; with connection cover 3RT1966-4EA1 maximum length 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 mm ² maximum	250 m			
type of connectable conductor cross-sections for main contacts for box terminal				
 using the front clamping point solid 	95 300 mm²			
 using the front clamping point finely stranded with core end processing 	70 240 mm²			
 using the front clamping point finely stranded without core end processing 	70 240 mm²			
 using the front clamping point stranded 	95 300 mm²			
 using the back clamping point solid 	120 240 mm²			
 r box terminal using the back clamping point 	250 500 kcmil			
using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²			
using both clamping points finely stranded with core end processing	min. 2x 50 mm², max. 2x 185 mm²			
 using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²			
using both clamping points stranded	min. 2x 70 mm², max. 2x 240 mm²			
using the back clamping point finely stranded with core end processing	120 185 mm ²			
using the back clamping point finely stranded without core end processing	120 185 mm ²			
using the back clamping point stranded	120 240 mm²			
type of connectable conductor cross-sections • for AWG cables for main current circuit solid	2/0 500 komil			
	2/0 500 kcmil 50 240 mm²			
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 	50 240 mm ²			
for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections				
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 processing 	$1x (0.5 4.0 \text{ mm}^2), 2x (0.5 2.5 \text{ mm}^2)$ $1x (0.5 2.5 \text{ mm}^2), 2x (0.5 1.5 \text{ mm}^2)$			
 for control circuit inners stranded with core end processing for AWG cables for control circuit solid 	1x (0.5 2.5 mm ⁻), 2x (0.5 1.5 mm ⁻) 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			
tightening torque				
for main contacts with screw-type terminals	14 24 N·m			
- in main contacto min onon type torminuto				

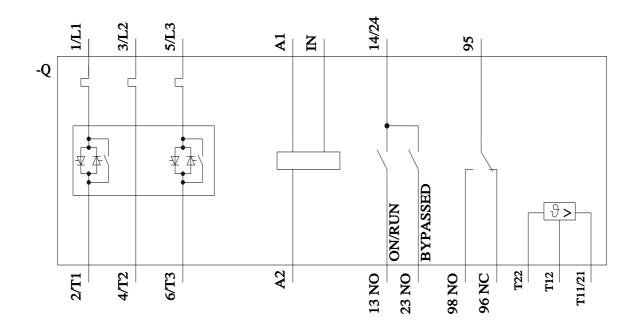
 for auxiliary and control contacts with screw-type 	0.0 1.0 N m				
terminals	0.8 1.2 N·m				
tightening torque [lbf·in]					
 for main contacts with screw-type terminals 	124 210 lbf·in				
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in				
Ambient conditions					
installation 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	-40+00.0				
during operation according 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 according to IEC 60721	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)				
Environmental footprint					
Siemens Eco Profile (SEP)	Siemens EcoTech				
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 RTO Modbus TCP	Yes				
Modulus TCP PROFIBUS	Yes				
	1.02				
JL/CSA ratings					
manufacturer's article number					
of circuit breaker					
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
• of the fuse	T 01 1 700 4 1 1011				
— usable for Standard Faults up to 575/600 V according to UL	Type: Class L, max. 700 A; lq = 10 kA				
 — usable for High Faults up to 575/600 V according to 					
UL	Type: Class L, max. 700 A; lq = 100 kA				
UL operating power [hp] for 3-phase motors					
UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value	60 hp				
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	60 hp 60 hp				
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	60 hp				
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 Electrical Safety	60 hp 60 hp 150 hp				
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 Electrical Safety protection class IP on the front according to IEC 60529	60 hp 60 hp 150 hp IP00; IP20 with cover				
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 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	60 hp 60 hp 150 hp				
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 Electrical Safety protection class IP on the front according to IEC 60529	60 hp 60 hp 150 hp IP00; IP20 with cover				
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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 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating	60 hp 60 hp 150 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover				
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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 420/480 V at 50 °C rated value at 460/480 V at 50 °C rated value Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 TEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to 	60 hp 60 hp 150 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover SIL1 9E-6 1/h 0.09				
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 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX	60 hp 60 hp 150 hp 1FP00; IP20 with cover finger-safe, for vertical contact from the front with cover SIL1 9E-6 1/h 0.09 0				
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 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	60 hp 60 hp 150 hp 1FP00; IP20 with cover finger-safe, for vertical contact from the front with cover SIL1 9E-6 1/h 0.09 0				
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 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificate of suitability	60 hp 60 hp 150 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover SIL1 9E-6 1/h 0.09 0 3 a				
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 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificate of suitability • ATEX	60 hp 60 hp 150 hp 1F00; IP20 with cover finger-safe, for vertical contact from the front with cover SIL1 9E-6 1/h 0.09 0 3 a				

	<u>Confirmation</u>	UK CA	C C EG-Konf.	(U) II	EAC		
EMV	For use in hazardous locations			Test Certificates	Marine / Shipping		
KC	IECEx	KEX ATEX	<u>Miscellaneous</u>	Type Test Certific- ates/Test Report	ABS		
Marine / Shipping		other	Environment				
Llovd's Register uis	PRS	<u>Confirmation</u>	Siemens EcoTech	EPD	Environmental Con- firmations		
Further information							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RW5072-6TB04							
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5072-6TB04							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6TB04							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://ww.automation.siemens.com/bilddb/cax_de_aspx?mlfb=3RW5072-6TB04⟨=en							
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6TB04/char							
Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5072-6TB04&objecttype=14&gridview=view1							
Simulation Tool for Soft Starters (STS)							

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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