SIEMENS

Data sheet

3RW4028-1TB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current limitation 		Yes
inside-delta circuit		No
product component motor brake output		No
insulation voltage rated value	V	600
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended		G
according to IEC 204-2 according to IEC 750		
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	A	38
 at 50 °C rated value 	A	34
 at 60 °C rated value 	A	31
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	kW	11
• at 400 V		
 — at standard circuit at 40 °C rated value 	kW	18.5
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	200 480
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	23

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 19

power loss [W] at operational current at 40 °C during operation typical	W	19
Control circuit/ Control		
type of voltage of the control supply voltage		AC/DC
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated value	Hz	60
relative negative tolerance of the control supply	%	-10
voltage frequency	,.	
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
 at 50 Hz rated value 	V	24
 at 60 Hz rated value 	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
display version for fault signal		red
Mechanical data		
size of engine control device		S0
width	mm	45
height	mm	125
depth	mm	155
fastening method		screw and snap-on mounting
mounting position		With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
required spacing with side-by-side mounting		
upwards	mm	60
• at the side	mm	15
 downwards 	mm	40
wire length maximum	m	300
number of poles for main current circuit		3
Connections/ Terminals		
type of electrical connection		
for main current circuit		screw-type terminals
for auxiliary and control circuit		screw-type terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		2
number of CO contacts for auxiliary contacts		1
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
 finely stranded with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²)
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
 using the front clamping point type of connectable conductor cross-sections for 		1x 8, 2x (16 10)
auxiliary contacts • solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²)
type of connectable conductor cross-sections at AWG		
cables		
 for auxiliary contacts 		2x (20 14)

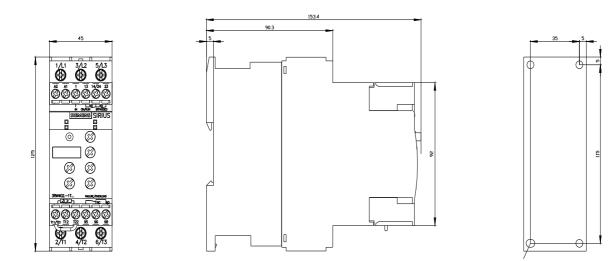
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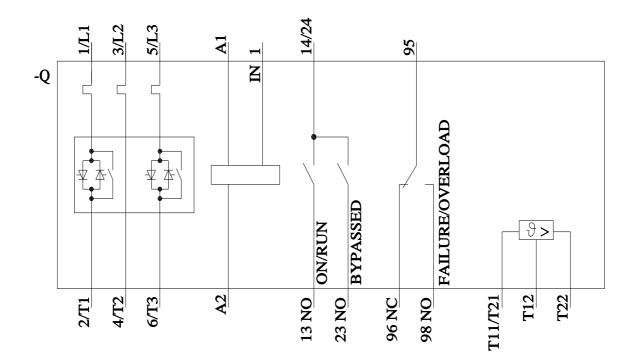
 for auxiliary cont processing 	tacts finely stranded wi	th core end		2x (20 16)		
Ambient conditions						
installation altitude at height above sea level			m	5 000		
environmental category						
 during transport according to IEC 60721 				2K2, 2C1, 28	S1, 2M2 (max. fall heigh	t 0.3 m)
during storage according to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt m 1S2 (sand must not get inside the devices), 1M4		
during operation according to IEC 60721				nation of ice, no condens and must not get into th		
ambient temperature						
 during operation 	1		°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperature)		°C	40		
protection class IP or 60529	n the front according	to IEC		IP20		
touch protection on the front according to IEC 60529			finger-safe, f	finger-safe, for vertical contact from the front		
Certificates/ approvals	5					
General Product App	proval					EMC
	Confirmation			-		•
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				<u> </u>	ENL	
CSA				UL UL		RGM
Test Certificates		Marine / Ship	ping			other
	Special Test Certific-	Lloyde		(And a	And and a second second	Confirmation
ates/Test Report	<u>ate</u>	Register				
		LRS		PRS	DAVOLUCIONA	
		2.12				
Railway						
•						

Confirmation

yielded mechanical performance [hp] for 3-phase AC motor						
• at 220/230 V						
— at standard circuit at 50 °C rated value	hp	10				
• at 460/480 V						
— at standard circuit at 50 °C rated value	hp	25				
contact rating of auxiliary contacts according to UL		B300 / R300				
Further information						
Simulation Tool for Soft Starters (STS)						
https://support.industry.siemens.com/cs/ww/en/view/101494917						
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=3RW4028-1TB04						
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1TB04						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
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