3RW4028-2TB05

SIEMENS



Data sheet



SIRIUS soft starter S0 38 A, 22 kW/500 V, 40 °C 400-600 V AC, 24 V AC/DC spring-type 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 according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	А	38
 at 50 °C rated value 	А	34
 at 60 °C rated value 	А	31
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	kW	18.5
• at 500 V		
— at standard circuit at 40 °C rated value	kW	22
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	400 600
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	%	115 dioptudopg
power loss [W] at operational current at 40 °C during operation typical	W	¹¹⁵ •)dientudong
Control circuit/ Control		lioneutong
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	%	10
voltage frequency	-	
 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	%	-20
voltage at AC at 50 Hz	70	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 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	150
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 		spring-loaded terminals
 for auxiliary and control circuit 		spring-loaded 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 mm ²), 2x (2.5 6 mm ²), max. 1x 10 mm ²
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	-	1x 8, 2x (16 10)
type of connectable conductor cross-sections for main contacts		
• solid		1 10 mm ²
 finely stranded with core end processing 		1 6 mm²

type of connectable conductor cross-sections for	or			Allon	tudona	
auxiliary contacts) IIII DI	tudong	
• solid				mm² UIGI	icuuony	
 finely stranded with core end processing 			2x (0.2 5	mr.1 ²)	~	
type of connectable conductor cross-sections a	at AWG					
cables			40 40 4.0			
• for main contacts			16 10, 1x 8			
for auxiliary contacts			2x (24 14)			
Ambient conditions						
installation altitude at height above sea level		m	5 000			
environmental category						
during transport according to IEC 60721			2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		ht 0.3 m)	
 during storage according to IEC 60721 				1K6 (only occasional condensation), 1C2 (no salt mist),		
during operation according to IEC 60721			1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperature				got into t		
during operation		°C	-25 +60			
during operation during storage		°C	-40 +80			
derating temperature		0°	-40 +80 40			
		C	40 IP20			
protection class IP on the front according to IEC 60529	•		IP20			
touch protection on the front according to IEC 6	60529		finger-safe for	vertical contact from	the front	
Certificates/ approvals			iniger care, ier			
General Product Approval	_				EMC	
			00		RGM	
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Type Test Certific- ates/Test Report Special Test Certific- ate Railway Confirmation UL/CSA ratings yielded mechanical performance [hp] for 3-phas motor • at 460/480 V — at standard circuit at 50 °C rated value • at 575/600 V	Lloyds Register uis	hp				
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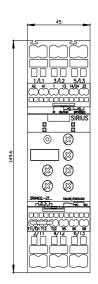
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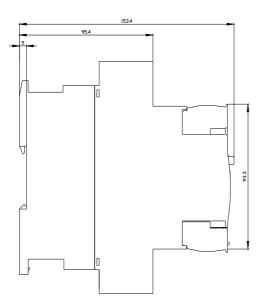
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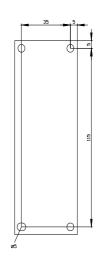
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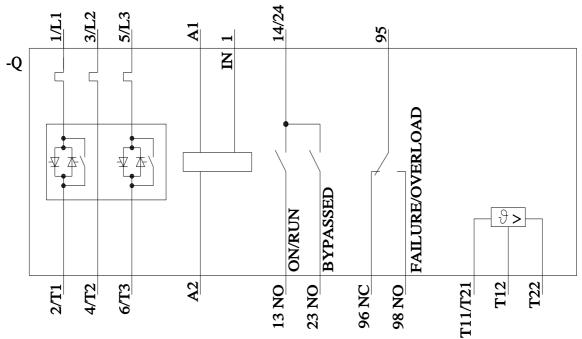
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