SIEMENS

Data sheet

3RW40 28-1TB04



SIRIUS SOFT STARTER, S0, 38A, 18.5KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SCREW TERMINALS, THERMISTOR MOTOR PROTECTION

General technical data	
product brandname	SIRIUS
 Product equipment Integrated bypass contact 	Yes
system	
 Product feature 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
Equipment marking acc. to DIN EN 61346-2	Q
Equipment marking acc. to DIN 40719 extended	G
according to IEC 204-2 acc. to IEC 750	
Power Electronics	
Product designation	Soft starter

Operating current		
• at 40 °C rated value	А	38
● at 50 °C rated value	А	34
• at 60 °C rated value	А	31
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	11 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	18 500
Yielded mechanical performance [hp] for three-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 [% of IM]	%	20
Adjustable motor current for motor overload protection minimum rated value	A	23
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	19
Control electronics		
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 voltage frequency	%	-10
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 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	125
Depth	mm	155
Mounting type		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
Installation altitude at height above sea level	m	5 000
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 current 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 conductors for main contacts for box terminal	
 using the front clamping point 	1x 8, 2x (16 10)
Type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	

 for auxiliary cor 	ntacts			2x (20 1	4)	
-	ntacts finely strande	d with core		2x (20 1	6)	
end processing						
mbient conditions						
Multion temperature	Э					
 during operation 	on		°C	-25 +60		
 during storage 			°C	-40 +80		
Derating temperature	9		°C	40		
Protection class IP				IP20		
ertificates/approva						
			_		EMC	For use in
General Product	Approvai				EIVIC	hazardous
						locations
						100410113
						_
(m)			Г	n r		\overline{c}
	SP	(YL)	FI	٦F		(Ex)
	(SA)		El	7F	C-Tick	Ex ATEX
	S CSA		El	AC	C-Tick	ATEX
	CSA Test Certificates		Shi			ATEX
Ccc Declaration of Conformity	Test Certificates		Shi	PPING Appro		ATEX
Declaration of	Test Certificates	UL UL S	Shi	PFC pping Appro	oval	ATEX
Declaration of		spezielle Prüfbescheinigu		PPING Appro	oval	ATEX
Declaration of Conformity	Typprüfbescheinigu	spezielle	^{unge} G	L@	oval Lloyd's Register	ATEX
Declaration of	Typprüfbescheinigu	spezielle Prüfbescheinigu	^{unge} G	pping Appro	oval	ATEX
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Declaration of Conformity	Typprüfbescheinigu	spezielle Prüfbescheinigu	^{unge} G	L@	oval Lloyd's Register	KERS ATEX

Yielded mechanical performance [hp] for three-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

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

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

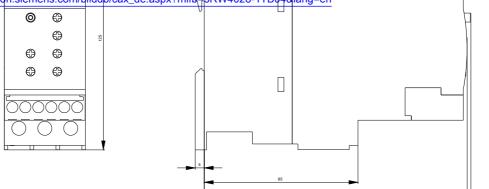
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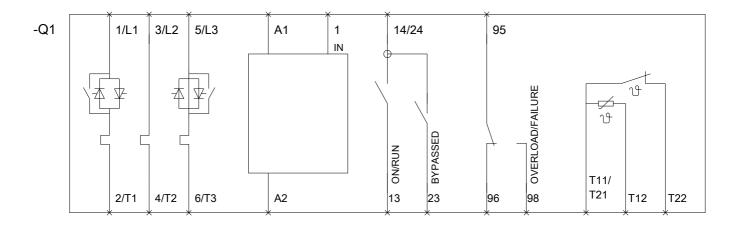
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.signeds.com/ps/ww/en/ps/3RW4028-1TB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-1TB048lang=en







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