SIEMENS

Data sheet

3RW40 28-1BB14



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 °C 200-480 V AC, 110-230 V AC/DC Screw terminals

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 		No	
• External reset		Yes	
 Adjustable current limitation 		Yes	
• inside-delta circuit		No	
Product component Motor brake output	_	No	
Insulation voltage rated value	V	600	
Reference code acc. to DIN EN 61346-2		Q	
Reference code acc. to DIN 40719 extended		G	
according to IEC 204-2 acc. to IEC 750			

Product designation		Soft starter
Operating current		
• at 40 °C rated value	А	38
 at 50 °C rated value 	A	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	hp	10
AC motor at 200/208 V at standard circuit at 50 °C	ΠÞ	10
rated value		
Operating frequency rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
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	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at standard circuit	%	10
	%	20
Minimum load [%] Adjustable motor current for motor overload	A	23
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	W	19
operation typical		
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	%	-10
voltage frequency		
Relative positive tolerance of the control supply	%	10
voltage frequency		
Control supply voltage 1 at AC at 50 Hz	V	110 230
Control supply voltage 1 at AC at 60 Hz	V	110 230
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	V	110 230
Relative negative tolerance of the control supply voltage at DC	%	-15
Relative positive tolerance of the control supply voltage at DC	%	10
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
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 m	ım²), max. 1x 10 mm²
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 m	ım²)
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- AWG conductors	sections at				
 for auxiliary contacts 			2x (20 14	4)	
 for auxiliary contacts finely stran end processing 	ded with core		2x (20 16	6)	
mbient conditions					
Installation altitude at height above se	a level	m	5 000		
Environmental category					
 during transport acc. to IEC 6072 	21		2K2, 2C1, 2	2S1, 2M2 (max. f	all height 0.3 m)
 during storage acc. to IEC 6072⁻ 	I				nsation), 1C2 (no salt et inside the devices),
 during operation acc. to IEC 607 	21				condensation), 3C3 (no ot get into the devices),
Ambient temperature		_			
 during operation 		°C	-25 +60		
 during storage 		°C	-40 +80		
derating temperature)		°C	40		
Protection class IP			IP20		
ertificates/approvals					
General Product Approval				EMC	For use in haz- ardous loca- tions
			EHC	C-Tick	ATEX
Declaration of Conformity	Test Certif	icates		Shipping Ap	proval
CE Miscellaneous	Special Test ficate	<u>Certi-</u>	Type Test Certific- ates/Test Report	Lloyd's Register	PRS
EG-Konf.					

UL/CSA ratings

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

Further information

Simulation Tool for Soft Starters (STS) 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)

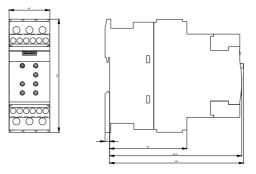
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4028-1BB14

Cax online generator

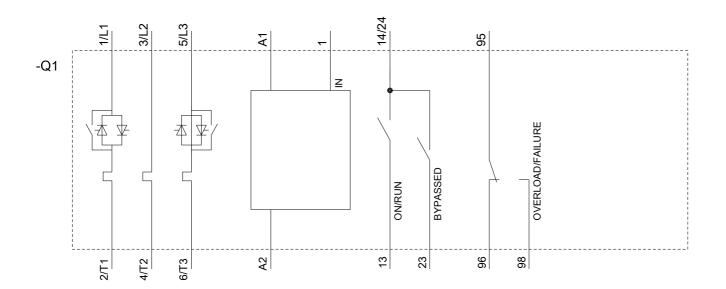
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1BB14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-1BB14&lang=en







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