SIEMENS

Data sheet 3RW40 28-2TB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^{\circ}$ C 200-480 V AC, 24 V AC/DC spring-type terminals Thermistor motor protection

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	
Reference identifier acc. to DIN EN 61346-2	Q	
Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G	

Product designation

Soft starter

Operating current		
at 40 °C rated value	Α	38
at 50 °C rated value	Α	34
at 60 °C rated value	Α	31
Mechanical power output for three-phase motors		
• at 230 V		
at 250 v — at standard circuit at 40 °C rated value	W	11 000
• at 400 V	VV	11 000
	W	18 500
— at standard circuit at 40 °C rated value		10
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 [%]	%	20
Adjustable motor current for motor overload protection minimum rated value	А	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	150
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	spr	ing-loaded terminals
 for auxiliary and control current circuit 	spr	ing-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 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 main contacts		
• solid	1	. 10 mm²
 finely stranded with core end processing 	1	. 6 mm²
Type of connectable conductor cross-sections for auxiliary contacts		
• solid	2x	(0.25 2.5 mm²)

finely stranded with core end processing	2x (0.25 1.5 mm²)
Type of connectable conductor cross-sections at	
AWG conductors	
• 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 acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during operation acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient temperature		
during operation	°C	-25 +60
during storage	°C	-40 + 80
Derating temperature	°C	40
Protection class IP		IP20

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity	Test Certificates	5	Shipping App	proval	
CE	Special Test Certificate	Type Test Certificates/Test Report	GL®	Lloyd's Register	
EG-Konf.			GL	LRS	PRS

other

Confirmation

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=3RW4028-2TB04

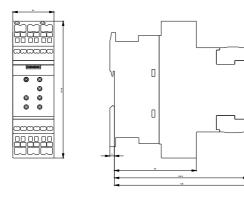
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-2TB04

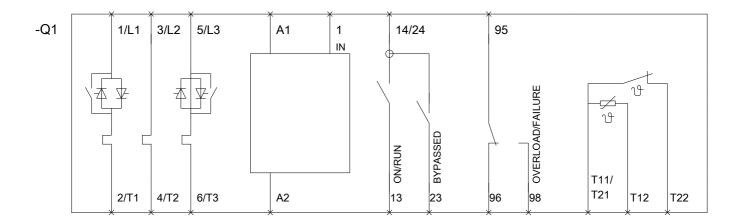
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-2TB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-2TB04&lang=en







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