SIEMENS

Data sheet

3RW4028-2TB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 °C 200-480 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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. 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 230 V		
 — at standard circuit at 40 °C rated value at 400 V 	W	11 000
- at standard circuit at 40 °C rated value	W	18 500
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	%	10

	_			
standard circuit	-			
minimum load [%]	%	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 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 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 50 Hz	%	-20		
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20		
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	-	SO		
width	mm	45		
height	mm	150		
depth for the standard stand	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	mm m	300		
number of poles for main current circuit	-			
number of poles for main current circuit Connections/ Terminals	-	300		
number of poles for main current circuit Connections/ Terminals type of electrical connection	-	300 3		
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit	-	300 3 spring-loaded terminals		
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	-	300 3 spring-loaded terminals spring-loaded terminals		
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	-	300 3 spring-loaded terminals spring-loaded terminals 0		
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	-	300 3 spring-loaded terminals spring-loaded terminals 0 2		
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	-	300 3 spring-loaded terminals spring-loaded terminals 0		
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	-	300 3 spring-loaded terminals spring-loaded terminals 0 2 1		
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front	-	300 3 spring-loaded terminals spring-loaded terminals 0 2		

cables for main contacts for box terminal				
 using the front clamping point 		1x 8, 2x (16 1	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 cables	-			
 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 		2K2, 2C1, 2S1,	2M2 (max. fall heig	ht 0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
• during operation acc. to IEC 60721			on of ice, no conder d must not get into t	nsation), 3C3 (no salt he devices), 3M6
ambient temperature				
 during operation 	°C	-25 +60		
during storage	°C	-40 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP20		
touch protection on the front acc. to IEC 60529		finger-safe, for	vertical contact from	the front
Certificates/ approvals				
General Product Approval			EMC	For use in hazard- ous locations
			~	
(SP: (W)		FAL	Ø	(Ex)
CSA CCC UL			RCM	ATEX
Test Certificates Marine / Ship	oping			other
Type Test Certific- ates/Test Report Special Test Certific- ate Howds	r	(\mathfrak{A})	DNV-GL	Confirmation
LRS		PRS	Division	

Railway

Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
 — at standard circuit at 50 °C rated value at 460/480 V 	hp	10

 — at standard circuit at 50 °C rated value
contact rating of auxiliary contacts according to UL

hp 25

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=3RW4028-2TB04

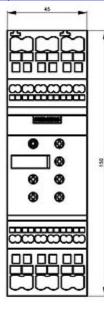
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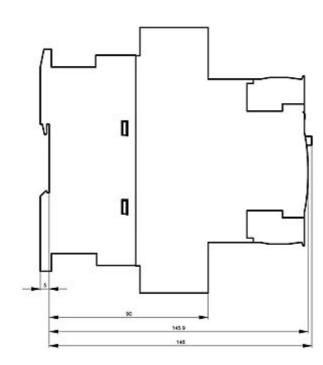
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-2TB04

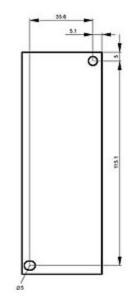
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

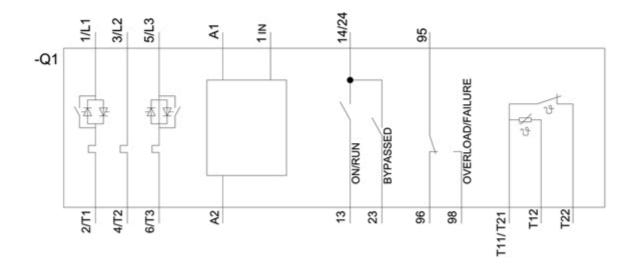
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-2TB04

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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