SIEMENS

Data sheet

3RW4028-1TB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw 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	W	11 000		
• at 400 V				
- 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	125
depth featoning method	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	-	
	-	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 screw-type 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 screw-type terminals screw-type 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 screw-type terminals screw-type 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 screw-type terminals screw-type 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 screw-type terminals screw-type 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 screw-type terminals screw-type 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 screw-type terminals screw-type terminals 0 2

cables 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 ı	mm²)	
 finely stranded with core end processing 		2x (0.5 1.5 ı	mm²)	
type of connectable conductor cross-sections at A cables	WG			
 for auxiliary contacts 		2x (20 14)		
 for auxiliary contacts finely stranded with core en processing 	nd	2x (20 16)		
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 			asional condensation st not get inside the c	
• during operation acc. to IEC 60721			tion of ice, no conder nd 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
	U	EHC	RCM	ATEX
Declaration of Conformity Test Certificates	N	larine / Shipping		
	est Certific- est Report	Lloyd's Register urs	PRS	DNV-GL DNV-GL
other				

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 	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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4028-1TB04

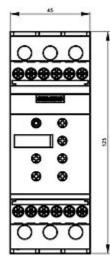
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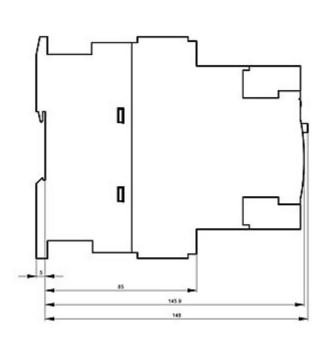
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1TB04

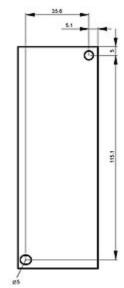
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

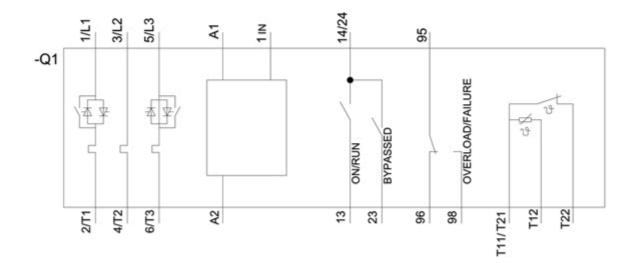
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1TB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-1TB04&lang=en









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