SIEMENS

Data sheet

3RW4027-1TB05



SIRIUS soft starter S0 32 A, 18.5 k kW/500 V, 40 °C 400-600 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

product brand nameSIRIUSproduct featureYes• integrated bypass contact systemYes• thyristorsYesproduct functionYes• intrinsic device protectionYes• motor overload protectionYes• evaluation of thermistor motor protectionYes• external resetYes• adjustable current limitationYes• inside-delta circuitNo	
• integrated bypass contact systemYes• thyristorsYesproduct functionYes• intrinsic device protectionYes• motor overload protectionYes• evaluation of thermistor motor protectionYes• external resetYes• adjustable current limitationYes	
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• intrinsic device protectionYes• motor overload protectionYes• evaluation of thermistor motor protectionYes• external resetYes• adjustable current limitationYes	
• motor overload protectionYes• evaluation of thermistor motor protectionYes• external resetYes• adjustable current limitationYes	
 evaluation of thermistor motor protection external reset adjustable current limitation Yes 	
external reset adjustable current limitation 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 G G to IEC 204-2 acc. to IEC 750	
Power Electronics	
product designation Soft starter	
operational current	
• at 40 °C rated value A 32	
• at 50 °C rated value A 29	
at 60 °C rated value A 26	
yielded mechanical performance for 3-phase motors	
• at 400 V	
— at standard circuit at 40 °C rated value W 15 000	
• at 500 V	
— at standard circuit at 40 °C rated value W 18 500	
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 400 600	
relative negative tolerance of the operating voltage at % -15 standard circuit	
relative positive tolerance of the operating voltage at % 10 standard circuit % 10	
minimum load [%] % 20	

	_	
adjustable motor current for motor overload protection minimum rated value	А	17
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	13
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	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	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 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		
cables for main contacts for box terminal		
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	mm²)	
 finely stranded with core end processing 	_	2x (0.5 1.5	mm²)	
type of connectable conductor cross-sections at AWG cables				
 for auxiliary contacts 		2x (20 14)		
 for auxiliary contacts finely stranded with core end processing 		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 height 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			ation of ice, no conden and must not get into th	
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	r vertical contact from	the front
Certificates/ approvals				
				For use in hazard-
General Product Approval		EAC	EMC	ous locations
General Product Approval		EAC		
General Product Approval Image: Constraint of the second	pping	EAC	EMC RCM	
		ERC	EMC RCM	ous locations
Image: Second system Image: Second system <th< td=""><td></td><td>EAC PBS</td><td>RCM</td><td>ous locations</td></th<>		EAC PBS	RCM	ous locations
Image: Sector		EAC	RCM	ous locations
Image: Sector		EAC PRS	RCM	ous locations
Image: Sector		EAC	RCM	ous locations
Image: Sector		EAC Prs	RCM	ous locations
Verticide		EAC	RCM	ous locations
Image: Section of the sec		EAC	RCM	ous locations
Visition		EAC	RCM	ous locations
VU/CSA ratings Vielded mechanical performance [hp] for 3-phase AC motor at standard circuit at 50 °C rated value at 575/600 V 	hp		RCM	ous locations
Visition		ERIC	RCM	ous locations

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=3RW4027-1TB05

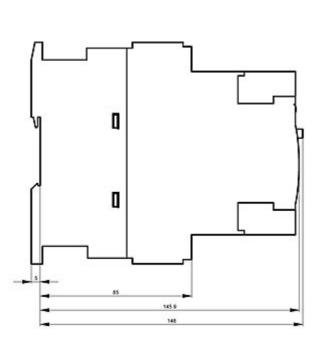
Cax online generator

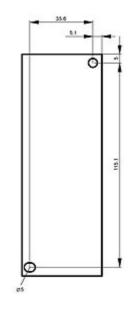
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4027-1TB05

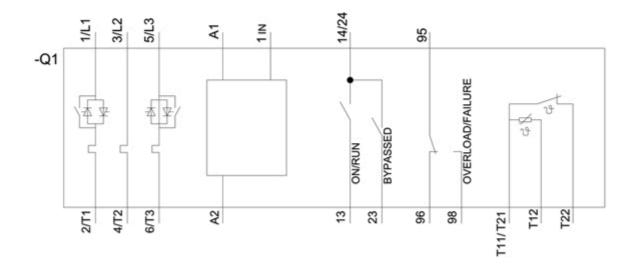
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4027-1TB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4027-1TB05&lang=en







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