SIEMENS

Data sheet

3RW4047-1TB04



SIRIUS soft starter S3 106 A, 55 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 according to EN 61346-2		Q		
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G		
Power Electronics				
product designation		Soft starter		
operational current				
 at 40 °C rated value 	А	106		
 at 50 °C rated value 	А	98		
 at 60 °C rated value 	А	90		
yielded mechanical performance for 3-phase motors				
• at 230 V				
 — at standard circuit at 40 °C rated value 	kW	30		
• at 400 V				
 — at standard circuit at 40 °C rated value 	kW	55		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30		
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	46		

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 21

power loss [W] at operational current at 40 °C during operation typical	W	21
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	%	-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 rated value	V	24
relative negative tolerance of the control supply	%	-20
voltage at DC relative positive tolerance of the control supply	%	20
voltage at DC display version for fault signal		red
Mechanical data		
size of engine control device	•	S3
width	mm	70
	mm	
height	mm	170 190
depth factoring method	mm	
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	30
• 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 (2.5 16 mm²)
 finely stranded with core end processing stranded 		2.5 35 mm² 4 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 16 mm²)
 finely stranded with core end processing stranded 		2.5 50 mm² 10 70 mm²
 stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points 		

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 stranded type of connectable cables for main cont using the back of using the front of using both clam type of connectable cable lug for main cond finely stranded stranded type of connectable auxiliary contacts solid finely stranded of type of connectable 	elamping point ping points conductor cross-sect ontacts conductor cross-sect with core end processir conductor cross-sect	ions at AWG ions for DIN ions for		2x (2.5 16 2x (2.5 35 2x (10 50 2x (10 1/0 2x (10 1/0 10 2/0 2 x (10 50 2x (10 50 2x (10 70 2x (0.5 2.: 2x (0.5 1.:	5 mm²) mm²))))) 0 mm²) mm²) 5 mm²) 5 mm²)	
 for main contact for auxiliary con 				2x (7 1/0) 2x (20 14)		
-	tacts finely stranded wi	th core end		2x (20 14)		
processing						
Ambient conditions	t hoight shows see !-	vol	~	5 000		
environmental categ	at height above sea le orv	vei	m	5 000		
•	according to IEC 6072	1		2K2, 2C1, 2	S1, 2M2 (max. fall heigh	nt 0.3 m)
 during storage a 	according to IEC 60721				ccasional condensation)	
 during operation 	• during operation according to IEC 60721			1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature						
during operationduring storage	1		2° 2°	-25 +60 -40 +80		
derating temperature	9		°C	-40 +80 40		
protection class IP on the front according to IEC 60529				IP20		
touch protection on Certificates/ approvals	the front according to	EC 60529		finger-safe, f	for vertical contact from	the front
General Product Ap		_				EMC
General Product Ap	provai					EWIC
	<u>Confirmation</u>			(الله س	EHC	RCM
Test Certificates		Marine / Ship	oping			other
<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	Llovds Register urs		PRS	ENVICE CORE	<u>Confirmation</u>
Railway						
Vibration and Shock	<u>Confirmation</u>					
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	30			
● at 460/480 V					
 — at standard circuit at 50 °C rated value 	hp	75			
contact rating of auxiliary contacts according to UL		B300 / R300			
Further information					
Simulation Tool for Soft Startors (STS)					

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=3RW4047-1TB04

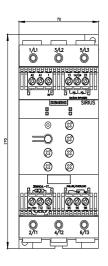
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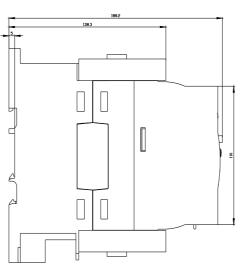
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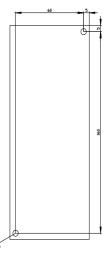
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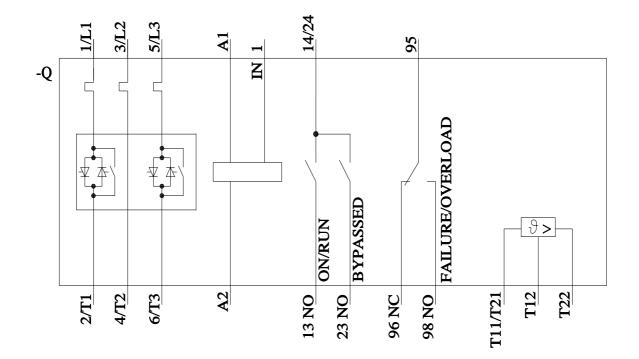
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-1TB04&lang=en









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