SIEMENS

Data sheet

3RW4036-1TB04



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 $^\circ\text{C}$ 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	45
• at 50 °C rated value	А	42
• at 60 °C rated value	А	39
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	11
• at 400 V		
 — at standard circuit at 40 °C rated value 	kW	22
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 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
	% 	6
power loss [W] at operational current at 40 °C during operation typical	VV	0
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	%	-10
frequency relative positive tolerance of the control supply voltage	%	10
frequency	70	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 voltage at	%	-20
DC relative positive tolerance of the control supply voltage at	%	20
DC display version for fault signal		red
Mechanical data		
size of engine control device		S2
width	mm	55
height	mm	160
depth	mm	170
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		
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		$2x(1.5 - 16 mm^2)$
solid finally stranded with care and processing		2x (1.5 16 mm ²)
 finely stranded with core end processing stranded 		0.75 25 mm ²
stranded type of connectable conductor cross-sections for main contacts for how terminal using the back elemning point		0.75 35 mm²
contacts for box terminal using the back clamping point		$2x(15 - 16 mm^2)$
• solid		2x (1.5 16 mm ²)
finely stranded with core end processing		1.5 25 mm ²
stranded type of connectable conductor cross-sections for main		1.5 35 mm²
contacts for box terminal using both clamping points		
		2x (1.5 16 mm²) 2x (1.5 16 mm²)

stranded type of connectable co							
type of connectable co				2x (1.5 25 mr	m²)		
cables for main contac	onductor cross-sections	s for AWG					
 using the back cla 	amping point			16 2			
 using the front cla 				18 2			
 using the noncol using both clampi 				2x (16 2)			
	onductor cross-sections	s for auxiliary		2x (10 2)			
solid				2x (0.5 2.5 m	m ²)		
	th care and processing						
•	th core end processing	- 6		2x (0.5 1.5 m	(m ⁻)		
cables	onductor cross-sections	s for AWG					
 for auxiliary contain 	acts			2x (20 14)			
 for auxiliary conta processing 	acts finely stranded with c	core end		2x (20 16)			
mbient conditions							
installation altitude at	height above sea level		m	5 000			
environmental categor	ry						
-	according to IEC 60721			2K2, 2C1, 2S1,	2M2 (max. fall height 0	.3 m)	
o .	cording to IEC 60721				sional condensation), 10		
e dannig otorago do					get inside the devices),		
 during operation a 	according 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			
	the front according to I	EC 60529	0	IP20			
-	e front according to IEC				vertical contact from the	front	
-		5 60525	_	linger-sale, ior		nont	
IL/CSA ratings			_				
	rformance [hp] for 3-ph	ase AC motor					
• at 220/230 V							
— at standard	circuit at 50 °C rated valu	a	hp	15			
• at 460/480 V							
— at standard	circuit at 50 °C rated valu	e	hp	30			
	circuit at 50 °C rated valu iary contacts according		hp	30 B300 / R300			
			hp				
contact rating of auxili	ary contacts according		hp			EMV	
contact rating of auxili	iary contacts according		hp			EMV	
contact rating of auxili	ary contacts according		hp		глг	EMV	
contact rating of auxili	iary contacts according		hp		FAC	EMV	
contact rating of auxili	iary contacts according		hp		EAC	EMV EMV RCM	
contact rating of auxili	iary contacts according		hp		EAC	EMV ECM	
contact rating of auxili	iary contacts according		hp		EAC	EMV ECM	
contact rating of auxili pprovals Certificates General Product Appr	iary contacts according	to UL				EMV ECM	
contact rating of auxili	iary contacts according				ERF Marine / Shipping	EMV ECM	
contact rating of auxili pprovals Certificates General Product Appr	iary contacts according roval <u>Confirmation</u> For use in hazard-	to UL				EMV ECM	
contact rating of auxili pprovals Certificates General Product Appr	iary contacts according roval <u>Confirmation</u> For use in hazard-	Test Certificate	es es	B300 / R300		EMV ECM RCM	
contact rating of auxili pprovals Certificates General Product Appr	iary contacts according roval <u>Confirmation</u> For use in hazard-	to UL CCC Test Certificate	es es	B300 / R300		EMV ECM RCM	
contact rating of auxili pprovals Certificates General Product Appr	iary contacts according roval <u>Confirmation</u> For use in hazard-	Test Certificate	es es	B300 / R300	Marine / Shipping	RCM RCM	
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contact rating of auxili pprovals Certificates General Product Appr	iary contacts according roval <u>Confirmation</u> For use in hazard-	Test Certificate	es es	B300 / R300	Marine / Shipping	RCM	
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contact rating of auxili pprovals Certificates General Product Appr EMV KC Marine / Shipping Warine / Shipping	iary contacts according roval Confirmation For use in hazard- ous locations Other Confirmation	to UL Test Certificate Type Test Cert ates/Test Rep Railway Special Test Ce ate	es ific- Sp iort	B300 / R300	Marine / Shipping	RCM RCM	

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW4036-1TB04

Cax online generator

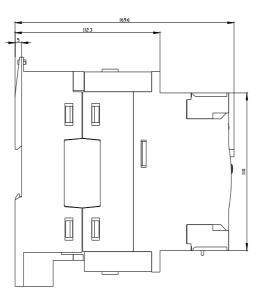
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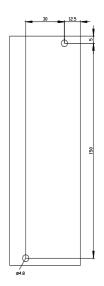
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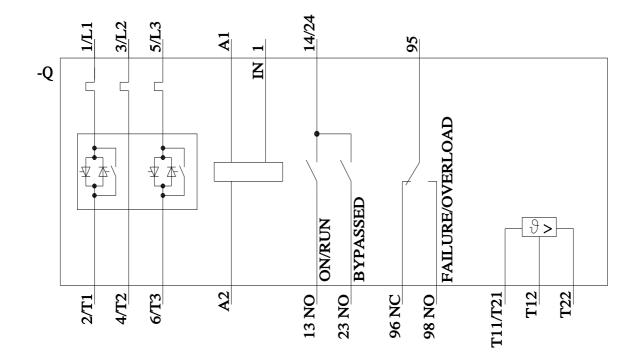
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-1TB04&lang=en

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