## **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

Figure similar

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
<ul><li>thyristors</li></ul>		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
<ul> <li>external reset</li> </ul>		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
<ul> <li>inside-delta circuit</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	Α	45
<ul> <li>at 50 °C rated value</li> </ul>	Α	42
<ul> <li>at 60 °C rated value</li> </ul>	Α	39
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	11
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	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	Α	23

protection minimum rated value		
protection minimum rated value	%	115
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during	% W	6
operation typical	VV	
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	%	-10
voltage frequency	0/	40
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
at 50 Hz rated value	V	24
<ul> <li>at 60 Hz rated value</li> </ul>	V	24
relative negative tolerance of the control supply	%	-15
voltage at AC at 50 Hz	0/	40
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		00
size of engine control device		S2
width	mm	55
height depth	mm mm	160 170
fastening method	111111	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
<ul><li>downwards</li></ul>	mm	40
wire length maximum	m	300
number of poles for main current circuit		3
Connections/ Terminals		
type of electrical connection		garayy typo tarminala
for main current circuit     for applicant and applications		screw-type terminals
<ul> <li>for auxiliary and control circuit</li> <li>number of NC contacts for auxiliary contacts</li> </ul>		screw-type terminals 0
number of NC 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 (1.5 16 mm²)
<ul><li>finely stranded with core end processing</li><li>stranded</li></ul>		0.75 25 mm <sup>2</sup> 0.75 35 mm <sup>2</sup>
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1.5 25 mm²
<ul> <li>stranded</li> <li>type of connectable conductor cross-sections for</li> </ul>		1.5 35 mm <sup>2</sup>
main contacts for box terminal using both clamping		

touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front	
protection class IP on the front according to IEC 60529			
•	C	IP20	
derating temperature	°C	40	
during operation     during storage	°C	-40 +80	
ambient temperature  • during operation	°C	-25 +60	
ambient temperature		mist), 3S2 (sand must not get into the devices), 3M6	
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	
<ul> <li>during storage according to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1C2 (no salt mist	
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
environmental category			
installation altitude at height above sea level	m	5 000	
mbient conditions			
processing			
for auxiliary contacts finely stranded with core end		2x (20 14)	
for auxiliary contacts		2x (20 14)	
type of connectable conductor cross-sections at AWG cables			
finely stranded with core end processing  type of connectable conductor gross postions at AWC.		2x (0.5 1.5 mm²)	
• solid		2x (0.5 2.5 mm²)	
auxiliary contacts		0(0.50.5	
type of connectable conductor cross-sections for			
using both clamping points		2x (16 2)	
using the front clamping point		18 2	
using the back clamping point		16 2	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal			
• stranded		2x (1.5 25 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1.5 16 mm²)	
• solid		2x (1.5 16 mm²)	

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Test Certificates	Marine / Shipping	other

Type Test Certificates/Test Report

Special Test Certificate







Confirmation

## Railway

Vibration and Shock Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	15
● at 460/480 V		

hp 30 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=3RW4036-1TB04

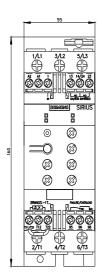
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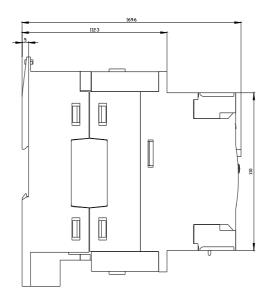
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-1TB04

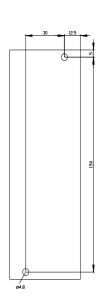
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

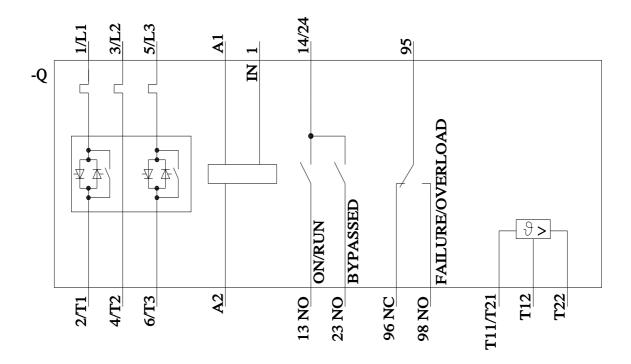
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-1TB04

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









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