## **SIEMENS**

Data sheet 3RW4036-1TB05



SIRIUS soft starter S2 45 A, 30 kW/500 V, 40  $^{\circ}\text{C}$  400-600 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

product brand name		SIRIUS
product designation		Soft starter
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
blocking voltage of the thyristor maximum	V	1 600
reference code according to EN 61346-2	·	Q
reference code according to DIN 40719 extended according		G
to IEC 204-2 according to IEC 750		
ower Electronics		
operational current		
at 40 °C rated value	Α	45
at 50 °C rated value	Α	42
at 60 °C rated value	Α	39
yielded mechanical performance for 3-phase motors		
● at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	22
● at 500 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	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	400 600
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
Illillillillillillillillillillillillilli		

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	6
operation typical		
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 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		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
<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		
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 (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		0.75 25 mm²
• stranded		0.75 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
3 · · · · · · · · · · · · · · · · · · ·		
• solid		2x (1.5 16 mm²)
		2x (1.5 16 mm²) 1.5 25 mm²
• solid		· · · · · · · · · · · · · · · · · · ·
<ul><li>solid</li><li>finely stranded with core end processing</li></ul>		1.5 25 mm²
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main</li> </ul>		1.5 25 mm²
solid     finely stranded with core end processing     stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		1.5 25 mm <sup>2</sup> 1.5 35 mm <sup>2</sup>

• stranded		2x (1.5 25 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		16 2
<ul> <li>using the front clamping point</li> </ul>		18 2
using both clamping points		2x (16 2)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
<ul> <li>during storage according to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during operation according to IEC 60721</li> </ul>		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
protection class IP on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
Environmental footprint		
Global Warming Potential [CO2 eq] total	kg	181
Global Warming Potential [CO2 eq] during manufacturing	kg	26.9
global warming potential [CO2 eq] during sales	kg	0.324
Global Warming Potential [CO2 eq] during operation	kg	158
Global Warming Potential [CO2 eq] after end of life	kg	-4.56
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	30
• at 575/600 V		
— at standard circuit at 50 °C rated value	hp	40
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		
General Product Approval		EMV

**@** 

Confirmation







<u>KC</u>

For use in hazardous locations

**Test Certificates** 

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping other Railway Environment







## Environment

Environmental Con-firmations

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging 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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4036-1TB05

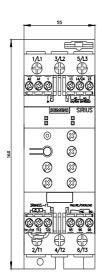
Cax online generator

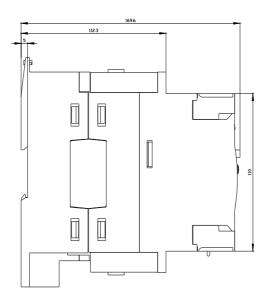
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4036-1TB05}$ 

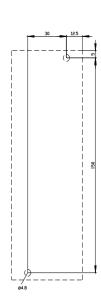
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

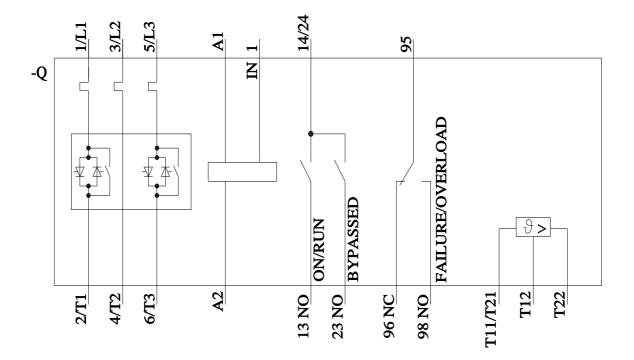
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-1TB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4036-1TB05&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4036-1TB05&lang=en</a>









last modified: 11/9/2024 🖸