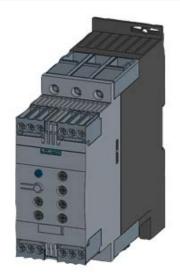
# **SIEMENS**

Data sheet 3RW40 36-1TB05



SIRIUS SOFT STARTER, S2, 45A, 30KW/500V, 40 DEGR., AC 400-600V, AC/DC 24V, SCREW TERMINALS, THERMISTOR MOTOR PROTECTION

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
External reset		Yes
Adjustable current limitation		Yes
• inside-delta circuit		No
Product component Motor brake output	-	No
Equipment marking acc. to DIN EN 61346-2		Q
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G

Power Electronics:		
Product designation		soft starters for standard applications
Operating current		
• at 40 °C Rated value	Α	45
● at 50 °C Rated value	Α	42
• at 60 °C Rated value	Α	39
Mechanical power output for three-phase motors		
● at 400 V		

<ul> <li>— at standard circuit at 40 °C Rated value</li> </ul>	W	22 000
● at 500 V		
— at standard circuit at 40 °C Rated value	W	30 000
Operating frequency Rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
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	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at	%	10
standard circuit		
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload	Α	23
protection minimum rated value		
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	6
operation typical		
Control electronics:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1 Rated value	Hz	50

Control electronics:		
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 with AC		
● at 50 Hz Rated value	V	24
• at 60 Hz Rated value	V	24
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-20
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	20
Control supply voltage 1 for DC Rated value	V	24
Relative negative tolerance of the control supply voltage for DC	%	-20
Relative positive tolerance of the control supply voltage for 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

Mounting type		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
Installation altitude at height above sea level	m	5 000
Cable 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
<ul> <li>for auxiliary and control current circuit</li> </ul>		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-section 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-section for main contacts for box terminal using the back		

• finely stranded with core end processing	0.75 25 mm²
• stranded	0.75 35 mm²
Type of connectable conductor cross-section 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
• stranded	1.5 35 mm²
Type of connectable conductor cross-section for	
main contacts for box terminal using both clamping	
points	
• solid	2x (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.5 16 mm²)
• stranded	2x (1.5 25 mm²)
Type of connectable conductor cross-section for	
AWG conductors 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
<ul><li>using both clamping points</li></ul>	2x (16 2)

Type of connectable conductor cross-section 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-section for AWG conductors	
• for auxiliary contacts	2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>	2x (20 16)

Ambient conditions:		
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-25 +60
during storage	°C	-40 +80
Derating temperature	°C	40
Protection class IP		IP00

## Certificates/ approvals:

General Product Approval	EMC	For use in
		hazardous
		locations











LRS



### **Test Certificates**

Shipping Approval

**Special Test** Certificate

Type Test Certificates/Test Report





GL



### other

Environmental Declaration of Confirmations Conformity

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	30

#### • at 575/600 V

- at standard circuit at 50 °C Rated value

metric hp	40
	B300 / R300

Contact rating of the auxiliary contacts acc. to UL

### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

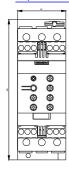
# Industry Mall (Online ordering system) http://www.siemens.com/industrymall

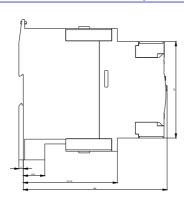
#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40361TB05

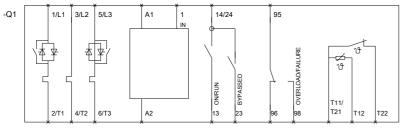
# Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="http://support.automation.siemens.com/WW/view/en/3RW40361TB05/all">http://support.automation.siemens.com/WW/view/en/3RW40361TB05/all</a>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40361TB05&lang=en









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