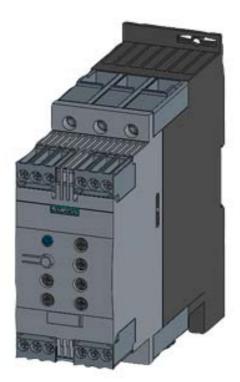
SIEMENS

3RW40 36-1BB05 Data sheet



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

General technical data		
product brandname	SIRIUS	
 Product equipment Integrated bypass contact 	Yes	
system		
 Product feature Thyristors 	Yes	
Product function		
 Intrinsic device protection 	Yes	
 motor overload protection 	Yes	
 Evaluation of thermistor motor protection 	No	
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	G	
according to IEC 204-2 acc. to IEC 750		
Power Electronics		
Product designation	Soft start	er

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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		
— at standard circuit at 40 °C rated value	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 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 [% of IM]	%	20
Adjustable motor current for motor overload protection minimum rated value	Α	23
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	6
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	%	10
voltage frequency		
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 60 Hz	%	-20
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
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	%	20

voltage at DC

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
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 current 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)
 finely stranded with core end processing 		0.75 25 mm ²
• stranded		0.75 35 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
 finely stranded with core end processing 		1.5 25 mm²
• stranded		1.5 35 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (1.5 16 mm²)
 finely stranded with core end processing 		2x (1.5 16 mm²)

• stranded		2x (1.5 25 mm²)
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal		
using the back clamping point		16 2
 using the front clamping point 		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)
 finely stranded with core end processing 		2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors		
• for auxiliary contacts		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)
Ambient conditions		
Ambient temperature		
 during operation 	°C	-25 +60
during storage	°C	-40 +80

°C

40

IP00

Certificates/approvals

Derating temperature Protection class IP

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity	Test Certificates		Shipping App	proval	
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EG-Konf.			GL	LRS	PRS

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Umweltbestätigung

Bestätigungen

UL/CSA ratings		
Yielded mechanical performance [hp] for three-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

Further information

Simulation Tool for Soft Starters (STS)

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

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4036-1BB05

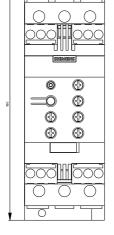
Cax online generator

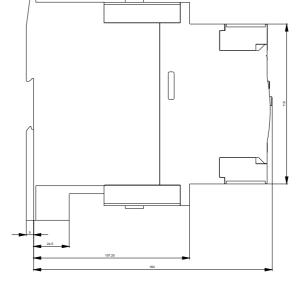
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-1BB05

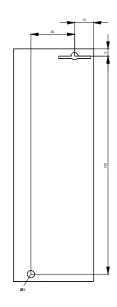
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

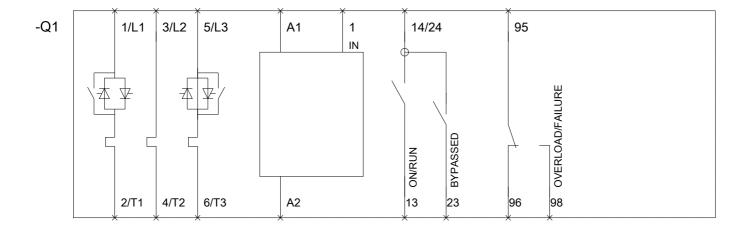
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-1BB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-1BB05&lang=en









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