SIEMENS

Data sheet 3RW4036-1BB05



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

Figure similar

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 		No		
 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		G		
according to IEC 204-2 according to IEC 750				
Power Electronics				
product designation		Soft starter		
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				
 — at standard circuit at 40 °C rated value 	kW	22		
● at 500 V				
 at standard circuit at 40 °C rated value 	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		
adjustable motor current for motor overload protection minimum rated value	А	23		
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	%	-10
voltage frequency		
relative positive tolerance of the control supply	%	10
voltage frequency		
control supply voltage 1 at AC • at 50 Hz rated value	\/	24
	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	%	-20
voltage at DC	0/	00
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
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		ecraw type terminals
		screw-type terminals screw-type terminals
for auxiliary and control circuit number of NC contacts for auxiliary contacts.		**
number of NC contacts for auxiliary contacts		0 2
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		1
type of connectable conductor cross-sections for		1
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 mm²
• 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 • stranded type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the back clamping point • using the front clamping point • using both clamping points • using both clamping points • using the front clamping points • using the front clamping points • using the front clamping point • using both clamping points • using both clamping points • using both clamping points • (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	2x (1.5 25 mm²) 16 2 18 2 2x (16 2) 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 16)
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the back clamping point • using both clamping point • using both clamping points • solid • finely stranded with core end processing • solid • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing Amblent conditions installation altitude at height above sea level environmental category • during transport according to IEC 60721 • during operation according to IEC 60721 • during operation according to IEC 60721 • during operation • during operation • during storage derating temperature • during storage derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529	16 2 18 2 2x (16 2) 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 16)
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mist), 3S2 (sand must not get into the devices), 3M6 ambient temperature • during operation • during storage • during temperature derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 mist), 3S2 (sand must not get into the devices), 3M6 C -25 +60 -40 +80 IP20 finger-safe, for vertical contact from the front	
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derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	-25 +60
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	-40 +80
60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	40
	IP20
Certificates/ approvals	finger-safe, for vertical contact from the front
General Product Approval	EMC
General Product Approval	

A

Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping other Railway



Confirmation

Confirmation

Vibration and Shock

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

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)

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

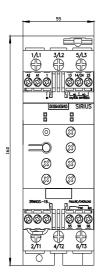
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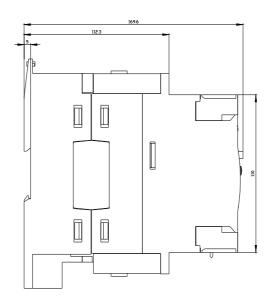
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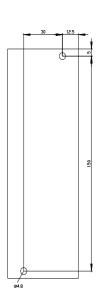
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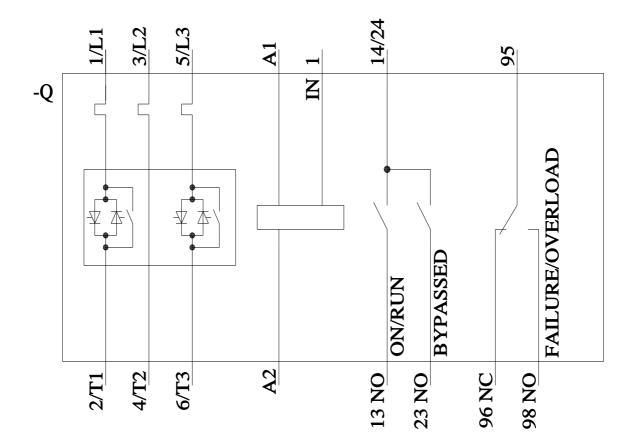
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4036-1BB05&lang=en









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