SIEMENS

Data sheet

3RW4036-1BB14



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

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 according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	45
• at 50 °C rated value	А	42
• at 60 °C rated value	А	39
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	11
• at 400 V		
— at standard circuit at 40 °C rated value	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 protection minimum rated value	A	23

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C durin 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 60
control supply voltage frequency 2 rated value relative negative tolerance of the control supply	Hz %	-10
voltage frequency		
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC at 50 Hz	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
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	V	110 230
relative negative tolerance of the control supply voltage at DC	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data	_	
size of engine control device		S2
width	mm	55
height	mm	160
depth fastening method	mm	170 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		corour type terminale
 for main current circuit for auxiliary and control circuit 		screw-type terminals 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		2x (4 - 40 - 22)
 solid finally stranded with core and processing 		2x (1.5 16 mm²) 0.75 25 mm²
 finely stranded with core end processing stranded 		0.75 25 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		$2x (1.5 - 16 \text{ mm}^2)$
solid finally atranded with core and processing		2x (1.5 16 mm ²)
 finely stranded with core end processing stranded 		1.5 25 mm² 1.5 35 mm²
 stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points 		1.5 35 IIIII ⁻
• solid		2x (1.5 16 mm²)

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 stranded type of connectable cables for main con using the back using the front using both clart type of connectable auxiliary contacts solid finely stranded type of connectable cables for auxiliary con for auxiliary con processing 	clamping point nping points conductor cross-sect with core end processir conductor cross-sect	tions at AWG tions for ng tions at AWG		2x (1.5 16 mr 2x (1.5 25 mr 16 2 18 2 2x (16 2) 2x (0.5 2.5 m 2x (0.5 1.5 m 2x (0.5 14) 2x (20 14) 2x (20 16)	m²) m²)	
Ambient conditions	et height et sur sur i	ual .		5 000		
environmental cates • during transpor • during storage • during operation ambient temperatur • during operation • during storage derating temperatur protection class IP 60529 touch protection on Certificates/ approva	rt according to IEC 6072 according to IEC 60721 on according to IEC 60721 on according to IEC 6072 re on re on the front according to the front according to Is	21 21 to IEC	°C °C °C	1K6 (only occas 1S2 (sand must 3K6 (no formati mist), 3S2 (sand -25 +60 -40 +80 40 IP20	2M2 (max. fall heigh sional condensation), t not get inside the de on of ice, no conden d must not get into th	1C2 (no salt mist), evices), 1M4 sation), 3C3 (no salt e devices), 3M6 the front
General Product A	pproval					EMC
CSA Declaration of	ccc	Confirmation		(UL)	EAC	RCM
Conformity	Test Certificates		Mar	ine / Shipping		
C C EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Cer</u> <u>ate</u>	r <u>tific-</u>	Lloyd's Register urs	PRS	DNV-GL
other	Railway					
<u>Confirmation</u>	Vibration and Shock	<u>Confirmatior</u>	1			

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
 — at standard circuit at 50 °C rated value 	hp	15
• at 460/480 V		
— at standard circuit at 50 °C rated value	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=3RW4036-1BB14

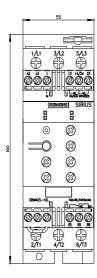
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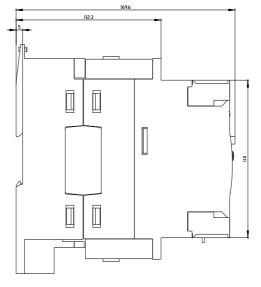
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

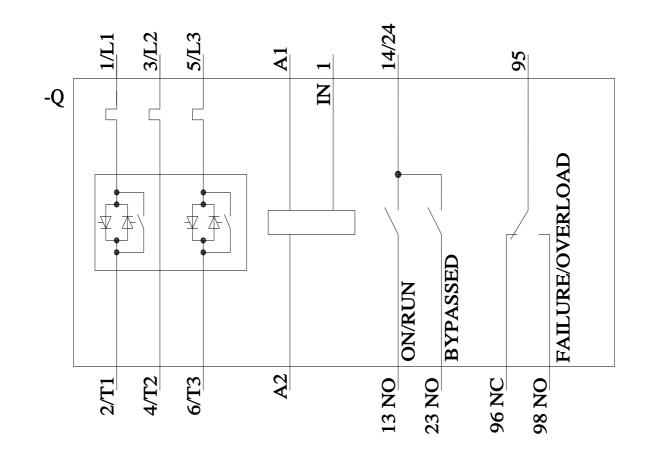
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-1BB14&lang=en









last modified:

1/16/2022 🖸