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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according		G
to IEC 204-2 acc. to IEC 750		
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 	W	11 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	22 000
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	А	23
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	6
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	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
relative negative tolerance of the control supply	%	-15
voltage at AC at 50 Hz		
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	mm	170
fastening method		screw and snap-on mounting
mounting position	-	With additional fan: With vertical mounting surface +/-90°
		rotatable, with vertical mounting surface $+/-22.5^{\circ}$ tiltable to the front and back Without additional fan: With vertical mounting surface $+/-10^{\circ}$ rotatable, with vertical mounting surface $+/-10^{\circ}$ 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		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 mm ²)
 finely stranded with core end processing stranded 		0.75 25 mm² 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)

	conductor cross-sec tacts for box terminal					
 using the back 	clamping point			16 2		
 using the front of 				18 2		
 using both clarr 				2x (16 2)		
-	conductor cross-sec	tions for				
 solid 				2x (0.5 2.5 r	nm²)	
 finely stranded 	with core end processi	ng		2x (0.5 1.5 r	nm²)	
type of connectable cables	conductor cross-sec	tions at AWG				
 for auxiliary cor 	ntacts			2x (20 14)		
 for auxiliary cor processing 	ntacts finely stranded w	ith core end		2x (20 16)		
Ambient conditions						
installation altitude	at height above sea le	evel	m	5 000		
environmental categ	jory					
 during transport 	t acc. to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall heigh	t 0.3 m)
 during storage a 	acc. to IEC 60721				asional condensation), st not get inside the de	
 during operation 	n acc. to IEC 60721				tion of ice, no condens nd must not get into th	
ambient temperature	e					
 during operation 	n		°C	-25 +60		
during storage			°C	-40 +80		
derating temperatur	е		°C	40		
protection class IP				IP00		
Certificates/ approval	S					
General Product Ap	proval					EMC
(SP) CEA	CCC	U		EAC	EAC	RCM
For use in hazardous locations	Declaration of Con	formity	Test	Certificates		Marine / Shipping
K ATEX	CE EG-Konf.	<u>Miscellaneous</u>		<u>ype Test</u> ificates/Test <u>Report</u>	<u>Special Test</u> <u>Certificate</u>	Hoyd's Register uis
Marine / Shipping		other	Railv	vay		
PRS	DNV-GL EtwallComm	<u>Confirmation</u>	<u>Vibrat</u>	ion and Shock		
UL/CSA ratings yielded mechanical	performance [hp] for	3-phase AC		_	_	

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

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