SIEMENS

Data sheet

3RW4036-2BB14



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC spring-type 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 to IEC 204-2 acc. 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 	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	%	10

	-	
standard circuit		
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	A	23
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	- 70 W	6
operation typical	•••	Ŭ
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 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		
Mechanical data		
size of engine control device	-	S2
	mm	S2 55
size of engine control device	mm mm	
size of engine control device width	-	55
size of engine control device width height	mm	55 160
size of engine control device width height depth	mm	55 160 170
size of engine control device width height depth fastening method	mm	55 160 170 screw and snap-on mounting 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
size of engine control device width height depth fastening method mounting position	mm	55 160 170 screw and snap-on mounting 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
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size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards	mm	55 160 170 screw and snap-on mounting 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 60 30 40
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300 3
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300 3
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300 3 screw-type terminals spring-loaded terminals 0
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size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300 3 screw-type terminals spring-loaded terminals 0
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300 3 screw-type terminals spring-loaded terminals 0 2 1
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size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300 3 screw-type terminals spring-loaded terminals 0 2 1

	box terminal using the	back				
clamping point				- // - /-		
• solid				2x (1.5 16 i	,	
-	d with core end processir	ng		1.5 25 mm ²		
stranded				1.5 35 mm²	2	
	le conductor cross-sect box terminal using both					
• solid				2x (1.5 16 ı	mm²)	
 finely strande 	d with core end processir	ng		2x (1.5 16 ı	mm²)	
 stranded 				2x (1.5 25 ı	mm²)	
	le conductor cross-sect ntacts for box terminal	tions at AWG				
 using the bac 	k clamping point			16 2		
 using the fron 	t clamping point			18 2		
 using both cla 	imping points			2x (16 2)		
type of connectabl auxiliary contacts	le conductor cross-sect	tions for				
 solid 				2x (0.25 2.	,	
	d with core end processir	<u> </u>		2x (0.25 1.	5 mm²)	
cables	le conductor cross-sect	tions at AWG				
 for auxiliary control 	ontacts			2x (24 14)		
Ambient conditions						
installation altitude	e at height above sea le	vel	m	5 000		
environmental cate	egory					
	ort acc. to IEC 60721				1, 2M2 (max. fall heigl	,
	e acc. to IEC 60721			1S2 (sand mu	asional condensation) ist not get inside the d	evices), 1M4
	ion acc. to IEC 60721				ation of ice, no conder Ind must not get into th	
ambient temperatu						
 during operation 			°C	-25 +60		
during storage			°C	-40 +80		
derating temperatu		2 60520	°C	40		
	on the front acc. to IEC			IP20 finger safe fo	r vortical contact from	the front
-	n the front acc. to IEC 6	00529	_	illiger-sale, io	r vertical contact from	
Certificates/ approv	als		_			
General Product A	Approval				EMC	For use in hazard- ous locations
SP		(JL)			\bigotimes	(Ex)
CSA	ccc	UL	I		RCM	ATEX
Declaration of Conformity	Test Certificates		Mari	ne / Shipping		
CE EG-Konf.	Special Test Certific- ate	Type Test Certifi ates/Test Report		Lloyds Register Lis	PRS	DNV-GL DNV-GL
other	Railway					
Confirmation	Confirmation	Vibration and Sho	ock			

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	
contact rating of auxiliary contacts according to UL		B300 / R300	
irther information			
ndustry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/prod Cax online generator http://support.automation.siemens.com/WW/CAXorder/def Service&Support (Manuals, Certificates, Characteristic https://support.industry.siemens.com/cs/ww/en/ps/3RW40	fault.aspx?lang= cs, FAQs,)		
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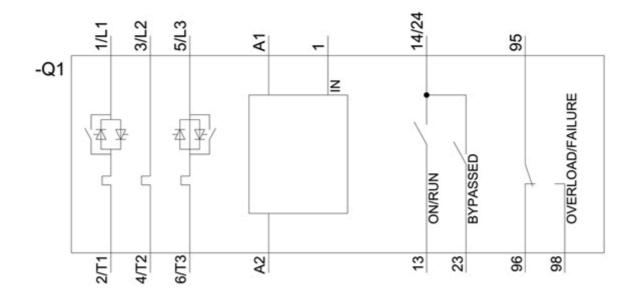
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