SIEMENS

Data sheet

3RW4036-2BB14



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 °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 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	A	23
protection minimum rated value		

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during 115 0

%

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	70	
relative positive tolerance of the control supply	%	10
voltage frequency	70	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	70	
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
	N/	110 220
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	%	10
voltage at DC display version for fault signal		rod
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
	_	5
Connections/ Terminals		
type of electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control circuit 		spring-loaded 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 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 mm ²
stranded		1.5 35 mm ²
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 processir	g		2x (1.5 16 m	im²)	
 stranded 				2x (1.5 25 m	im²)	
	e conductor cross-sect ntacts for box terminal	ions at AWG				
 using the back 	clamping point			16 2		
 using the front 	clamping point			18 2		
 using both clar 	nping points			2x (16 2)		
type of connectable	e conductor cross-sect	ions for				
auxiliary contacts						
 solid 				2x (0.25 2.5		
 finely stranded 	with core end processir	Ig		2x (0.25 1.5	mm²)	
type of connectable cables	e conductor cross-sect	ions at AWG				
 for auxiliary contract 	ntacts			2x (24 14)		
Ambient conditions						
installation altitude	at height above sea le	vel	m	5 000		
environmental cate	gory					
 during transport 	rt according to IEC 6072	1		2K2, 2C1, 2S1	, 2M2 (max. fall heigh	t 0.3 m)
 during storage 	according to IEC 60721				sional condensation),	
					t not get inside the de	,
 during operation 	on according to IEC 6072	21			ion of ice, no condens	
				mist), 3S2 (san	id must not get into th	e devices), 3106
ambient temperatur			00	-25 +60		
during operation			⊃° ⊃°	-25 +60 -40 +80		
during storage			ງ ວ°	-40 +80 40		
derating temperatur			C	40 IP20		
60529	on the front according	to IEC		IP20		
touch protection on	n the front according to	IEC 60529		finger-safe, for	vertical contact from	the front
Certificates/ approva	ls					
General Product A	pproval					EMC
		Confirmatio		-		•
(G)	(m)	Confirmatio	<u>)11</u>	Ē	гпг	
QC.	<u>u</u>			W	FHI	<u></u>
CSA	ccc			UL	P11P	RCM
Declaration of						
Conformity	Test Certificates		Ma	arine / Shipping		
,						
	Special Test Certific-	Type Test Cer	rtific-		APR .	11807/60 AB
CE	ate	ates/Test Re		Lloyd's	(33)	
				register		DNV-GL
EG-Konf.				LRS	PRS	Devid L CORRAP
other	Railway					
Confirmation	Confirmation	Vibration and S	<u>Shock</u>			

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
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 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=3RW4036-2BB14

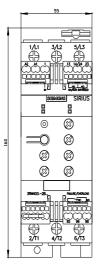
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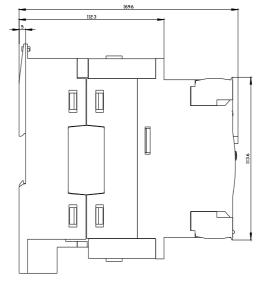
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-2BB14

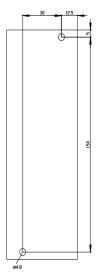
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

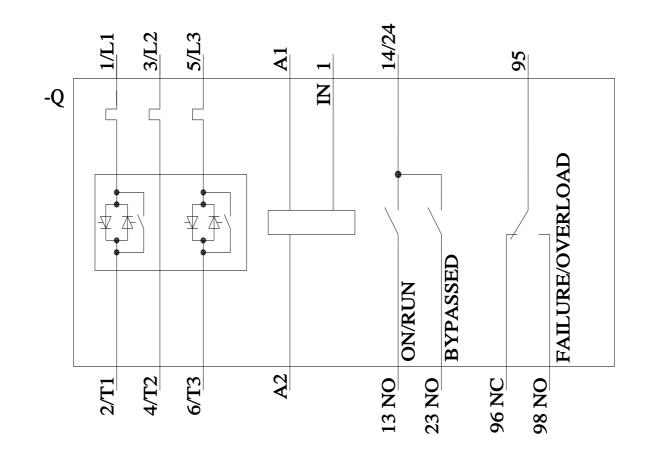
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-2BB14

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









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