SIEMENS



3RW4036-2BB04

Data sheet

SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC spring-type terminals



Figuresimilar

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

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minimum load [%]	%
adjustable motor current for motor overload protection minimum rated value	A
continuous operating current [% of le] at 40 °C	%
power loss [W] at operational current at 40 °C during operation typical	W
Control circuit/ Control	



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 rated value	V	24
at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
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		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 m	m²)	L
 finely stranded 	with core end processi	ng		1.5 . mm²) AIQNI	tudong
 stranded 				1.5	' Juion	luuung
	e conductor cross-sec ox terminal using both					Ŭ
 solid 				2x (1.5 16 m	m²)	
 finely stranded 	with core end processi	ng		2x (1.5 16 m	m²)	
 stranded 				2x (1.5 25 m	m²)	
	e conductor cross-sec ntacts for box terminal					
 using the back 	clamping point			16 2		
 using the front 	clamping point			18 2		
 using both clar 				2x (16 2)		
type of connectable auxiliary contacts • solid	e conductor cross-sec	tions for		2x (0.25 2.5	mm ²)	
	with core end processi	na		2x (0.25 2.5 2x (0.25 1.5		
	conductor cross-sec	-		28 (0.25 1.5	······)	
cables		tions at Awg		0		
 for auxiliary co Ambient conditions 	macis			2x (24 14)		
	et height chave and b			E 000		
	at height above sea le	evei	m	5 000		
environmental cate	gory rt according to IEC 6072	24		21/2 201 201	, 2M2 (max. fall height	0.2 m)
	according to IEC 6072				sional condensation),	
0 0	Ũ			1S2 (sand mus	t not get inside the de	vices), 1M4
during operation	on according to IEC 607	21			ion of ice, no condens Id must not get into the	
ambient temperatur						
 during operation 			°C			
during storage			°C			
derating temperatu			°C			
60529	on the front according			IP20		
touch protection on	the front according to	o IEC 60529		finger-safe, for	vertical contact from t	he front
Certificates/ approva	ls					
General Product A	pproval					EMC
SP M		<u>Confirmatic</u>	<u>on</u>		EHC	
Declaration of Conformity	Test Certificates			Marine / Shipping		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Ca</u> ate	<u>ertific-</u>	Lloyd's Register urs	PRS	DNV-GL EMISLEDIKO
other	Railway					
Confirmation	Confirmation	Vibration and C	Shock			
Commation	Commitmation	Vibration and S	<u>SHUCK</u>			

UL/CSA ratings		diantudana	
yielded mechanical performance [hp] for 3-phase AC motor		🗢) unentumoni	
• 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/101494	<u>917</u>		
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=3RW4036-2BB04			

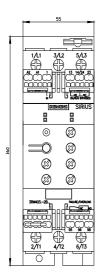
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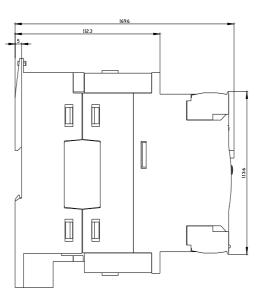
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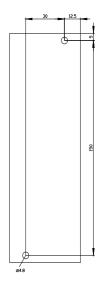
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

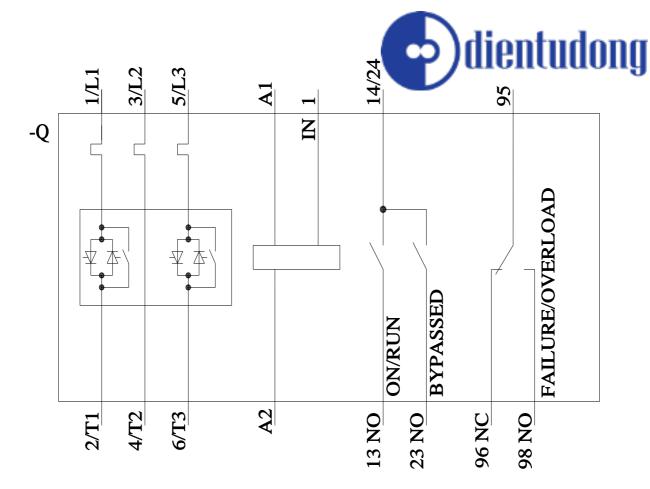
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-2BB04&lang=en









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