SIEMENS

Data sheet

3RW4036-2BB05



SIRIUS soft starter S2 45 A, 30 kW/500 V, 40 $^{\circ}\text{C}$ 400-600 V AC, 24 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 400 V			
 — at standard circuit at 40 °C rated value 	W	22 000	
● at 500 V			
 — at standard circuit at 40 °C rated value 	W	30 000	
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	400 600	
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 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 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				0v (4 E 40	2)	
• solid	d			2x (1.5 16 n		
 finely stranded stranded 	d with core end processi	ng		1.5 25 mm ² 1.5 35 mm ²		
type of connectabl	e conductor cross-sector cross-sector cross-sector cross-sector crossector cross-sector cross-sector cross-sect			1.0 00 1111		
 solid 				2x (1.5 16 n	nm²)	
 finely stranded 	d with core end processi	ng		2x (1.5 16 n	,	
stranded				2x (1.5 25 n	nm²)	
cables for main co	e conductor cross-sec ntacts for box terminal	tions at AWG				
-	k clamping point			16 2		
 using the front 				18 2		
using both cla				2x (16 2)		
type of connectabl auxiliary contacts	e conductor cross-sec	tions for				
• solid				2x (0.25 2.5	5 mm²)	
	d with core end processi	ηα		2x (0.25 1.5	,	
	e conductor cross-sec	<u> </u>				
cables						
 for auxiliary co 	ontacts			2x (24 14)		
Ambient conditions						
installation altitude	e at height above sea le	vel	m	5 000		
environmental cate	egory					
 during transport 	ort acc. to IEC 60721			2K2, 2C1, 2S1	1, 2M2 (max. fall heigh	nt 0.3 m)
 during storage 	e acc. to IEC 60721			1K6 (only occa	asional condensation)	, 1C2 (no salt mist),
 during operati 	on acc. to IEC 60721			3K6 (no forma	st not get inside the d ation of ice, no conden nd must not get into th	sation), 3C3 (no salt
ambient temperatu	Ire			11100), 002 (00	na maor nor ger mo a	
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperatu			°C	40		
	on the front acc. to IE	C 60529		IP20		
touch protection of	n the front acc. to IEC (60529		finger-safe, for	r vertical contact from	the front
Certificates/ approva	als			-		
General Product A					EMC	For use in hazard- ous locations
(SP)		(UL)		EHC		K X
Declaration of	Test Certificates		Mari	ne / Shipping		
Conformity	Test Certificates		Wall	ne / Snipping		
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certif</u> ates/Test Repo		Lloyd's Register urs	PRS	DNV-GL
other	Railway					
Confirmation	Confirmation	Vibration and Sh	<u>ock</u>			

UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC motor				
• at 460/480 V				
 — at standard circuit at 50 °C rated value 	hp	30		
• at 575/600 V				
- at standard circuit at 50 °C rated value	hp	40		
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- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10				
Industry Mall (Online ordering system)				

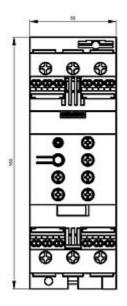
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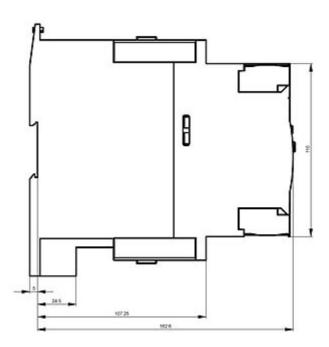
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-2BB05

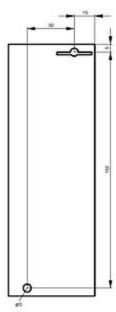
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

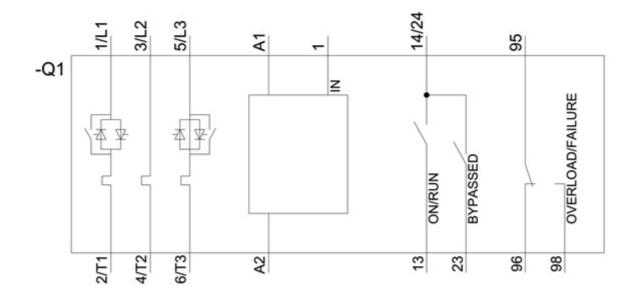
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-2BB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-2BB05&lang=en









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