SIEMENS

Data sheet

3RW4037-2BB05



SIRIUS soft starter S2 63 A, 37 kW/500 V, 40 $^\circ\text{C}$ 400-600 V AC, 24 V AC/DC spring-type terminals

General technical data	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	63			
 at 50 °C rated value 	А	58			
 at 60 °C rated value 	А	53			
yielded mechanical performance for 3-phase motors					
• at 400 V					
 — at standard circuit at 40 °C rated value 	W	30 000			
• at 500 V					
 — at standard circuit at 40 °C rated value 	W	37 000			
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	26
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	12
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							
• solid				2x (1.5 16 r	nm²)		
 finely stranded 	with core end processi	ng		1.5 25 mm²			
 stranded 				1.5 35 mm²			
	conductor cross-sec ox terminal using bot						
 solid 				2x (1.5 16 r	nm²)		
-	with core end processi	ng			2x (1.5 16 mm ²)		
stranded				2x (1.5 25 r	nm²)		
cables for main con	conductor cross-sec tacts for box termina						
using the back				16 2			
-	using the front clamping point			18 2			
using both clam		tionofor		2x (16 2)	2x (16 2)		
type of connectable auxiliary contacts	conductor cross-sec	tions for					
solid				2x (0.25 2.5	5 mm²)		
	with core end processi	ng		2x (0.25 1.5	,		
	conductor cross-sec				,		
 for auxiliary cor 	ntacts			2x (24 14)			
Ambient conditions				, ,			
	at height above sea le	evel	m	5 000			
environmental categ							
	during transport acc. to IEC 60721			2K2, 2C1, 2S	1, 2M2 (max. fall heigh	nt 0.3 m)	
	acc. to IEC 60721				asional condensation)		
 during operatio 	n acc. to IEC 60721			3K6 (no forma	ist not get inside the d ation of ice, no conden nd must not get into th	sation), 3C3 (no salt	
ambient temperatur	e			11130, 002 (84	na maarnot get mo ti		
during operatio			°C	-25 +60			
during storage			°C	-40 +80			
derating temperature		°C	40				
	protection class IP on the front acc. to IEC 60529			IP20			
touch protection on the front acc. to IEC 60529				finger-safe, fo	r vertical contact from	the front	
Certificates/ approval	s						
General Product Ap	oproval				EMC	For use in hazard- ous locations	
					-		
(SP)		(h) u		EHC	RCM	K ATEX	
-		-					
Declaration of Conf	formity	Test Certifica	ates		Marine / Shipping		
~ ~	Miscellaneous	<u>Type Test Ce</u>		pecial Test Certific-	Llouds		
EG-Konf.		<u>ates/Test Re</u>	port	ate	Register	PRS	
Marine / Shipping	other	Railway					
And and a second se	Confirmation	Vibration and S	<u>Shock</u>				
DNV-GL							

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	40
● at 575/600 V		
 — at standard circuit at 50 °C rated value 	hp	50
contact rating of auxiliary contacts according to UL		B300 / R300
Further information		

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4037-2BB05

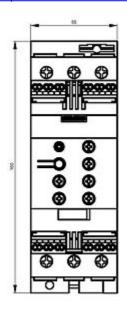
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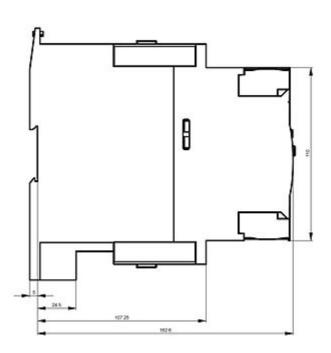
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4037-2BB05

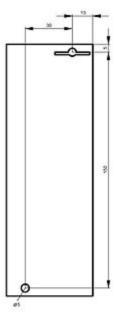
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

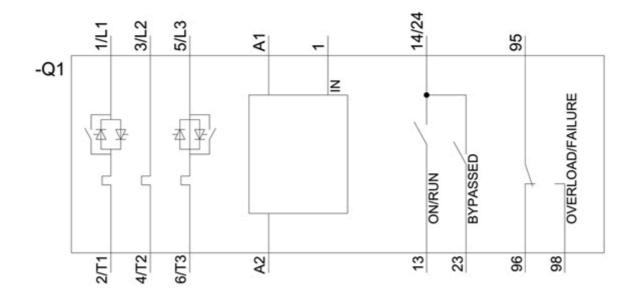
https://support.industry.siemens.com/cs/ww/en/ps/3RW4037-2BB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4037-2BB05&lang=en









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