SIEMENS

Data sheet

3RW4036-1TB05



SIRIUS soft starter S2 45 A, 30 kW/500 V, 40 °C 400-600 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

Figure similar

Seneral 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 		Yes		
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	- 70 A	23
protection minimum rated value	~	25
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	%	-10
voltage frequency		
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		
Mechanical data size of engine control device		\$2
	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	55 160 170 screw and snap-on mounting
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
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side	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
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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	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
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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	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	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
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 screw-type terminals screw-type terminals
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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 screw-type terminals 0 2 1

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	ates/Test Report	ate	Lloyd's Register us	PRS	DNV-GL EMOLODIAN
Conformity Miscellaneous		pecial Test Certific-		ang ang	station 140.
Declaration of	Test Certificates		Marine / Ship	oing	
			EHC	RCM	ATEX ATEX
General Product Ap	pproval			EMC	For use in hazard- ous locations
Certificates/ approval	S				
•	the front acc. to IEC 605	529	finger-sa	afe, for vertical contact fror	n the front
•	on the front acc. to IEC 6		IP20		
derating temperatur	e	0	C 40		
 during storage 			C -40 +	80	
-	during operation		C -25 +	60	
ambient temperatur	e		mist), 39	S2 (sand must not get into	the devices), 3M6
during operation acc. to IEC 60721			1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt		
• ·	acc. to IEC 60721		1K6 (on	ly occasional condensation	n), 1C2 (no salt mist),
during transport acc. to IEC 60721			2K2, 2C	1, 2S1, 2M2 (max. fall heig	ght 0.3 m)
environmental categ		<u> </u>			
	at height above sea leve	l r	n 5 000		
processing Ambient conditions		_			
 for auxiliary cor 	ntacts finely stranded with	core end	2x (20		
 for auxiliary cor 	ntacts		2x (20	14)	
type of connectable cables	conductor cross-sectio	ns at AWG			
	with core end processing		2x (0.5	1.5 mm²)	
 solid 			2x (0.5	2.5 mm²)	
type of connectable auxiliary contacts	conductor cross-sectio				
using both clam type of connectable		no for	2x (16	2)	
• using the front			18 2		
 using the back 	clamping point		16 2		
	conductor cross-sectio tacts for box terminal	ns at AWG			
stranded	conductor croco costic		2x (1.5	25 mm²)	
-	with core end processing			16 mm²)	
 solid 				16 mm²)	
	ox terminal using both c				
stranded type of connectable	conductor cross-sectio	ns for	1.5 3		
-	with core end processing		1.5 2		
				16 mm²)	
 solid 			0 // =		

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4036-1TB05

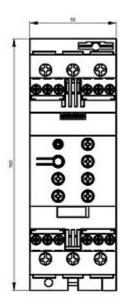
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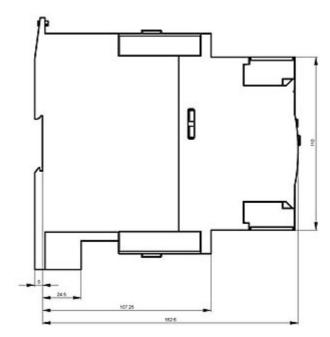
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-1TB05

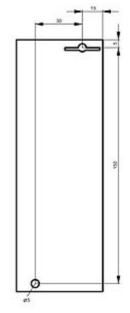
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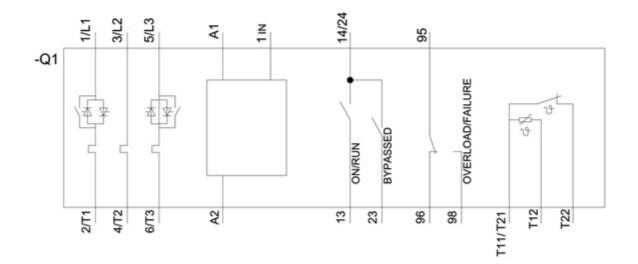
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-1TB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-1TB05&lang=en









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