SIEMENS

Data sheet

3RW3038-1BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

product feature • integrated bypass contact system • thyristors product function • intrinsic device protection • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • external reset • adjustable current limitation • inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	SIRIUS Yes Yes No No No No No No
integrated bypass contact system thyristors product function intrinsic device protection motor overload protection evaluation of thermistor motor protection external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics	Yes No No No No No OO
thyristors product function intrinsic device protection intrinsic device protection motor overload protection evaluation of thermistor motor protection external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to IEC 750 Power Electronics	Yes No No No No No OO
product function I • intrinsic device protection I • motor overload protection I • evaluation of thermistor motor protection I • external reset I • adjustable current limitation I • inside-delta circuit I product component motor brake output I insulation voltage rated value V degree of pollution C reference code acc. to DIN EN 61346-2 C reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 C Power Electronics I	No No No No No 600
intrinsic device protection motor overload protection evaluation of thermistor motor protection external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics	No No No No No 600
motor overload protection evaluation of thermistor motor protection external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to IEC 750 Power Electronics	No No No No No 600
evaluation of thermistor motor protection external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to IEC 750 Power Electronics	No No No No 600
external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics	No No No 600
adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics	No No 600
inside-delta circuit product component motor brake output insulation voltage rated value V degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics	No No 600
product component motor brake output If insulation voltage rated value V degree of pollution 3 reference code acc. to DIN EN 61346-2 0 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 0 Power Electronics 0	No 600
insulation voltage rated value V 6 degree of pollution 3 reference code acc. to DIN EN 61346-2 0 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 0 Power Electronics 0	600
degree of pollution 3 reference code acc. to DIN EN 61346-2 3 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 6 Power Electronics 3	
reference code acc. to DIN EN 61346-2 (C reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics	
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics	3, acc. to IEC 60947-4-2
to IEC 204-2 acc. to IEC 750 Power Electronics	Q
	G
product designation	
product doorgination	Soft starter
operational current	
at 40 °C rated value A	72
at 50 °C rated value A	62
at 60 °C rated value A	60
yielded mechanical performance for 3-phase motors • at 230 V	
	22 000
• at 400 V	22 000
	37 000
	20
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 %	-10

standard circuit	-	
minimum load [%]	%	10
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	15
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	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-10
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	%	-10
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
control supply voltage 1 at DC	V	110 230
relative negative tolerance of the control supply voltage at DC	%	-10
relative positive tolerance of the control supply voltage at DC	%	10
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 vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
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 		screw-type terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts	_	1
number of CO contacts for auxiliary contacts	_	0
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 		1.5 25 mm² 1.5 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid		$2x/(15-16 mm^2)$
		2x (1.5 16 mm²)
 finely stranded with core end processing 		1.5 25 mm ²

 stranded 				1.5 35 mm²		
	conductor cross-sect ox terminal using both					
solid				2x (1.5 16 n	nm²)	
 finely stranded 	with core end processin	ng		2x (1.5 16 n	,	
 stranded 				2x (1.5 10 mm ²)		
	conductor cross-sect tacts for box terminal	ions at AWG				
 using the back 	clamping point			16 2		
 using the front 	clamping point			18 2		
 using both clan 	nping points			2x (16 2)		
type of connectable auxiliary contacts	conductor cross-sect	ions for				
 solid 				2x (0.5 2.5 i	mm²)	
	with core end processin	-		2x (0.5 1.5 i	mm²)	
type of connectable cables	conductor cross-sect	ions at AWG				
 for auxiliary cor 				2x (20 14)		
 for auxiliary cor processing 	ntacts finely stranded wi	th core end		2x (20 16)		
Ambient conditions						
installation altitude	at height above sea le	vel	m	5 000		
environmental categ	-					
 during transpor 	t acc. to IEC 60721			2K2, 2C1, 2S1	I, 2M2 (max. fall heigh	nt 0.3 m)
during storage acc. to IEC 60721				1K6 (only occa	asional condensation) st not get inside the d	, 1C2 (no salt mist),
during operation acc. to IEC 60721					tion of ice, no conden nd must not get into th	
ambient temperatur	е					
 during operation 			°C	-25 +60		
during storage			°C	-40 +80		
derating temperatur	e		°C	40		
protection class IP of	on the front acc. to IEC	60529		IP20		
touch protection on	the front acc. to IEC 6	60529		finger-safe, for	r vertical contact from	the front
Certificates/ approval	S					
General Product Ap	oproval				EMC	Declaration of Conformity
SP SA				E HC	RCM	<u>Miscellaneous</u>
Declaration of	Test Certificates		othe	r		Railway
Conformity						
CE	<u>Type Test Certific-</u> ates/Test Report	Special Test Certif	fic- <u>Mis</u>	<u>scellaneous</u>	Confirmation	Confirmation
EG-Konf.						

Railway

Vibration and Shock

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	20			
• at 460/480 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=3RW3038-1BB14

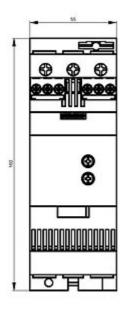
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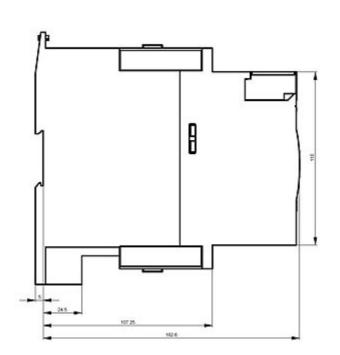
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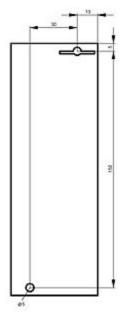
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

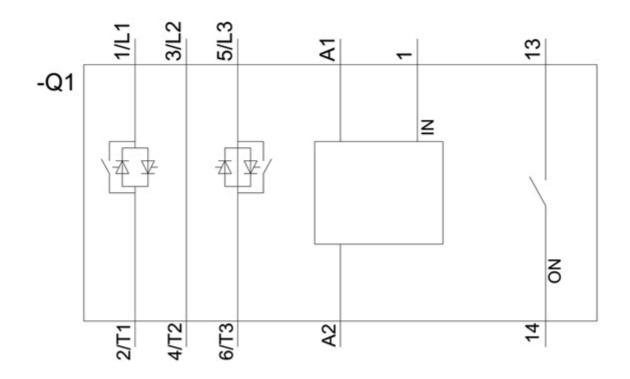
https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3038-1BB14&lang=en









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