SIEMENS

Data sheet

3RW4028-2BB15



SIRIUS soft starter S0 38 A, 22 kW/500 V, 40 °C 400-600 V AC, 110-230 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	38		
 at 50 °C rated value 	А	34		
• at 60 °C rated value	А	31		
yielded mechanical performance for 3-phase motors				
• at 400 V				
 — at standard circuit at 40 °C rated value 	W	18 500		
• at 500 V				
 — at standard circuit at 40 °C rated value 	W	22 000		
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	19
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	%	-15
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	%	-15
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	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data		
size of engine control device		SO
width	mm	45
height	mm	150
depth	mm	155
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	15
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 		spring-loaded 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 2.5 mm ²), 2x (2.5 6 mm ²), max. 1x 10 mm ²
		2x (1 2.5 mm²), 2x (2.5 6 mm²)
finely stranded with core end processing	-	
 finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal using the front clamping point 		1x 8, 2x (16 10)

main contacts					
• solid			1 10 mm²		
 finely stranded with core end processing 	1		1 6 mm ²		
type of connectable conductor cross-section auxiliary contacts	-				
• solid			2x (0.25 2.5	mm²)	
 finely stranded with core end processing 	9		2x (0.25 1.5		
type of connectable conductor cross-section cables	ons at AWG				
 for main contacts 			16 10, 1x 8		
 for auxiliary contacts 			2x (24 14)		
mbient conditions					
installation altitude at height above sea lev	el	m	5 000		
environmental category					
 during transport acc. to IEC 60721 			2K2, 2C1, 2S1	, 2M2 (max. fall height	t 0.3 m)
• during storage acc. to IEC 60721				asional condensation), st not get inside the de	
• during operation acc. to IEC 60721				tion of ice, no condens	
ambient temperature					
 during operation 		°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 60	529		finger-safe, for	vertical contact from t	he front
ertificates/ approvals					
General Product Approval				EMC	For use in hazard- ous locations
	U		EHC	RCM	ATEX
Declaration of Conformity	Test Certificates			Marine / Shipping	
Miscellaneous EG-Konf.	<u>Special Test Certifi</u> <u>ate</u>		<u>e Test Certific-</u> <u>s/Test Report</u>	Lloyd's Register uis	PRS
Marine / Shipping other <u>Confirmation</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	25
• at 575/600 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/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=3RW4028-2BB15

Cax online generator

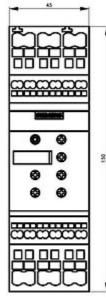
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-2BB15

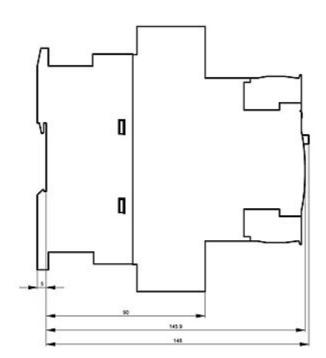
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

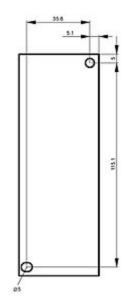
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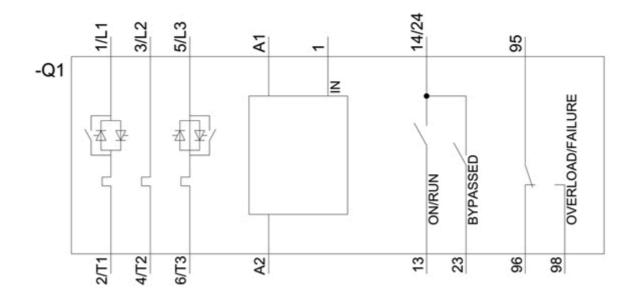
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-2BB15&lang=en









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