SIEMENS

Data sheet 3RW4028-1BB14



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw 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 according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according 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	Α	31
yielded mechanical performance for 3-phase motors • at 230 V		
— at standard circuit at 40 °C rated value	kW	11
• at 400 V		
 at standard circuit at 40 °C rated value 	kW	18.5
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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 standard circuit	%	10
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	23

continuous operating current [% of lo] of 40 °C	%	115
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during	% W	115
operation typical	VV	13
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		S0
width	mm	45
height	mm	125
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		screw-type terminals
		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		2
number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		1
CONDUCTO TO LOCALISMOST USING THE HORS CISHIDING DOINT		
		2v (1 2.5 mm²) 2v (2.5 6 mm²) may 4v 40 mm²
• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
solidfinely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²)
solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		2x (1 2.5 mm²), 2x (2.5 6 mm²)
solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal using the front clamping point type of connectable conductor cross-sections for auxiliary		
solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal using the front clamping point type of connectable conductor cross-sections for auxiliary contacts		2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)
solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal using the front clamping point type of connectable conductor cross-sections for auxiliary contacts solid		2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) 2x (0.5 2.5 mm²)
solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal using the front clamping point type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)
solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal using the front clamping point type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables		2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)
solid finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal using the front clamping point type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing type of connectable conductor cross-sections for AWG		2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) 2x (0.5 2.5 mm²)

Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
 during transport according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
 during storage according to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
 during operation 	°C	-25 +60
during storage	°C	-40 +80
derating temperature	°C	40
protection class IP on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
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	10
• at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	25
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

General Product Approval









Confirmation



General Product Approval

EMV

For use in hazardous locations

Test Certificates





<u>KC</u>



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping

E S

Confirmation

other

Confirmation

Railway

Environmental Confirmations

Environment



Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW4028-1BB14

Cax online generator

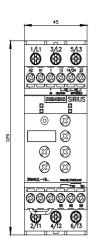
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1BB14

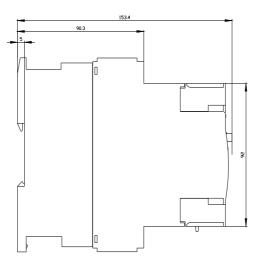
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1BB14

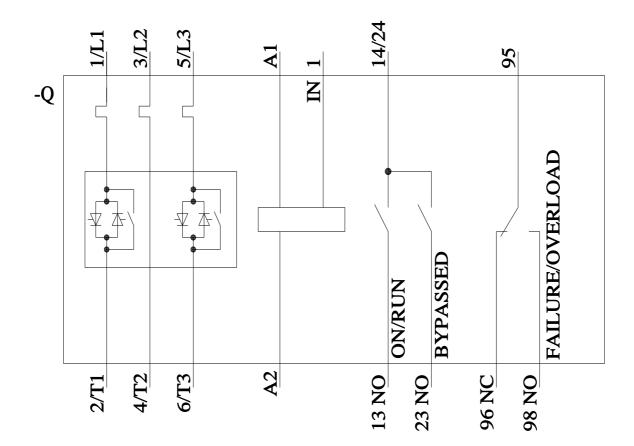
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-1BB14&lang=en









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