SIEMENS

Data sheet 3RW3027-1BB14



SIRIUS soft starter S0 32 A, 15 kW/400 V, 40 °C 200-480 V AC, 110-230 V AC/DC Screw terminals

product feature integrated bypass contact system integrated bypass contact system integrated bypass contact system integrated bypass contact system yes product function intrinsic device protection intrinsic devi	General technical data		
integrated bypass contact system thyristors product function intrinsic device protection motor overload protection evaluation of thermistor motor protection evaluation	product brand name		SIRIUS
e thyristors product function intrinsic device protection intrinsic device protection e veluation of thermistor motor protection e evaluation of thermistor motor protection e external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value degree of pollution reference code according to EN 61346-2 reference code according to EN 61346-2 reference code according to DIN 40719 extended according to EC 204-2 according to EC 750 Power Electronics product designation operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 20 V at standard circuit at 40 °C rated value which is a standard circuit at 50 °C rated value yielded mechanical performance [hp] for 3-phase AC motor at 200208 V at standard circuit at 50 °C rated value operating frequency rated value relative negative tolerance of the operating frequency relative negative tolerance of the operating frequency relative negative tolerance of the operating voltage at standard circuit relative negative tolerance of the operating voltage at standard circuit standard circuit relative positive tolerance of the operating voltage at standard circuit relative negative tolerance of the operating voltage at standard circuit standard circuit relative negative tolerance of the operating voltage at standard circuit standard circuit standard circuit store No No No 8 90 60 60 60 60 60 60 60 60 60	product feature		
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to IEC 204-2 according to IEC 750 Power Electronics product designation operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 230 V — at standard circuit at 40 °C rated value • at 400 V — at standard circuit at 40 °C rated value vielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value operating frequency rated value relative negative tolerance of the operating frequency relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit	reference code according to EN 61346-2		Q
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yielded mechanical performance for 3-phase motors • at 230 V — at standard circuit at 40 °C rated value • at 400 V — at standard circuit at 40 °C rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value operating frequency rated value relative negative tolerance of the operating frequency operating voltage at standard circuit rated value volume tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit	 at 50 °C rated value 	Α	29
at 230 V — at standard circuit at 40 °C rated value at 400 V — at standard circuit at 40 °C rated value www 15 yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value operating frequency rated value performance of the operating frequency relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating voltage at standard circuit rated value relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit	 at 60 °C rated value 	Α	26
- at standard circuit at 40 °C rated value • at 400 V — at standard circuit at 40 °C rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value operating frequency rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency operating voltage at standard circuit rated value relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit	yielded mechanical performance for 3-phase motors		
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yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value operating frequency rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency operating voltage at standard circuit rated value v 200 480 relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit	• at 400 V		
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relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency operating voltage at standard circuit rated value relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit **Total Company of the operating voltage at standard circuit		hp	7.5
relative positive tolerance of the operating frequency operating voltage at standard circuit rated value v 200 480 relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit **Tolerance of the operating voltage at standard circuit** 10 10 10 10 10 10 10 10 10 10 10 10 10	operating frequency rated value	Hz	50 60
operating voltage at standard circuit rated value relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit **Tolerance of the operating voltage at standard circuit* **Tolerance of the operating voltage at standard circuit* **Tolerance of the operating voltage at standard circuit*	relative negative tolerance of the operating frequency	%	-10
relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit 10	relative positive tolerance of the operating frequency	%	10
standard circuit relative positive tolerance of the operating voltage at standard circuit **Tolerance of the operating voltage at standard circuit** 10	operating voltage at standard circuit rated value	V	200 480
standard circuit		%	-15
		%	10
minimum load [%] % 10	minimum load [%]	%	10
continuous operating current [% of le] at 40 °C % 115	continuous operating current [% of le] at 40 °C	%	115

power loss [W] at operational current at 40 °C during	W	13
operation typical		
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	150
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	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
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 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		0
• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²)
finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		
using the front clamping point		1x 8, 2x (16 10)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
finely stranded with core end processing		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end 		0 (00 10)
processing		2x (20 16)
processing Ambient conditions		2x (20 16)

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	7.5
• at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	20
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

General Product Approval





Confirmation







General Product Approval

EMV

Test Certificates

other

Miscellaneous





<u>KC</u>

Type Test Certificates/Test Report

Confirmation

Environment

Environmental Confirmations

Further information

Simulation Tool for Soft Starters (STS)

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

Information on the packaging

om/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=3RW3027-1BB14

Cax online generator

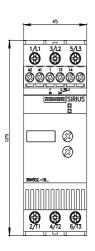
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3027-1BB14

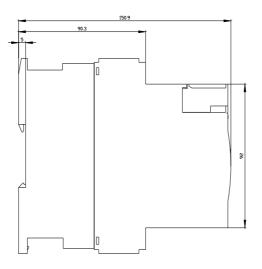
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3RW3027-1BB14

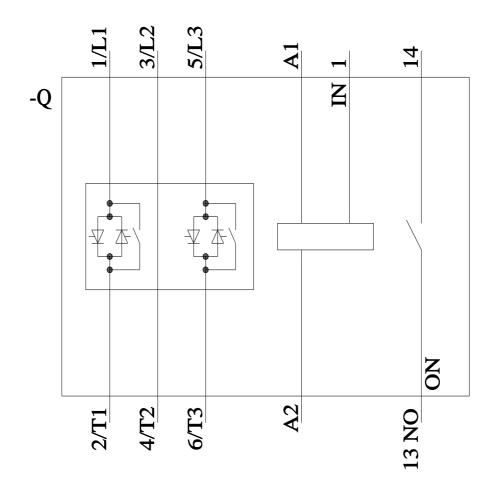
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3027-1BB14&lang=en









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