SIEMENS

Data sheet 3RW4028-2BB14



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 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 according to EN 61346-2		Q		
reference code according to DIN 40719 extended		G		
according to IEC 204-2 according to IEC 750				
Power Electronics				
product designation		Soft starter		
operational current				
 at 40 °C rated value 	Α	38		
 at 50 °C rated value 	Α	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	Α	23		

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	19
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	%	-15
voltage at AC at 60 Hz relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz 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	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		enring loaded terminals
for main current circuit for auxiliary and control circuit		spring-loaded terminals 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 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²)
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		2. (1 2.3 mm), 2. (2.3 3 mm)
using the front clamping point		1x 8, 2x (16 10)
type of connectable conductor cross-sections for main contacts		1. 0, 2. (10 10)
		4 40 mm²
• solid		1 10 mm²
finely stranded with core end processing type of connectable conductor cross-sections for		1 6 mm²
auxiliary contacts		0 (0.05 0.5
• solid		2x (0.25 2.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)

type of connectable conductor cross-sections at AWG cables				
for main contacts		16 10, 1x 8		
 for auxiliary contacts 		2x (24 14)		
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		
Certificates/ approvals				

®

General Product Approval



Confirmation







EMC

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







other Railway

<u>Confirmation</u> <u>Confirmation</u>

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
Further information		

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,...)

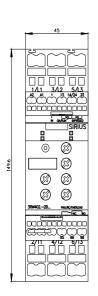
https://www.siemens.com/ic10

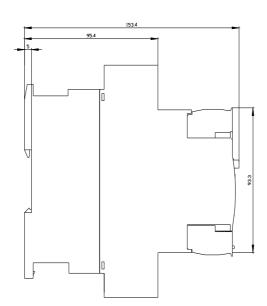
Industry Mall (Online ordering system)

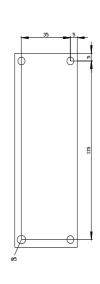
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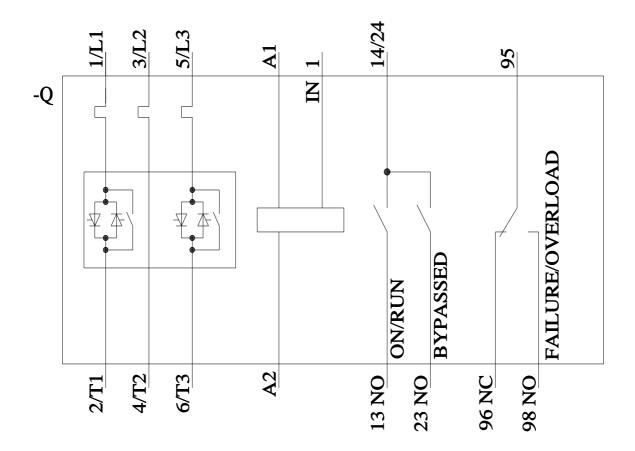
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-2BB14









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