SIEMENS

Data sheet 3RW4028-2BB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 24 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 	Α	38
 at 50 °C rated value 	Α	34
at 60 °C rated value	A	31
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	11 000
• at 400 V		
 — at standard circuit at 40 °C rated value 	W	18 500
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

	_	
standard circuit		
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 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 rated value	V	24
at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
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 mm	40
wire length maximum	mm	40 300
wire length maximum number of poles for main current circuit	mm mm	40
wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm	40 300
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	40 300 3
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit	mm mm	40 300 3 spring-loaded terminals
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	mm mm	40 300 3 spring-loaded terminals spring-loaded terminals
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	mm mm	40 300 3 spring-loaded terminals spring-loaded terminals 0
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	spring-loaded terminals spring-loaded terminals 0 2
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	40 300 3 spring-loaded terminals spring-loaded terminals 0
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	spring-loaded terminals spring-loaded terminals 0 2
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	spring-loaded terminals spring-loaded terminals 0 2
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	spring-loaded terminals spring-loaded terminals 0 2 1

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cables for main contacts for box terminal		
 using the front clamping point 		1x 8, 2x (16 10)
type of connectable conductor cross-sections for main contacts		
• solid		1 10 mm²
 finely stranded with core end processing 		1 6 mm²
type of connectable conductor cross-sections for auxiliary contacts		
• 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 acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during operation acc. 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		IP20
protection class in		==



General Product Approval











EMC

For use in hazardous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping
⟨£x⟩	<u>Miscellaneous</u>	C€	Special Test Certificate	Type Test Certificates/Test Report	Lloyd's Register



other



Marine / Shipping



Confirmation

EG-Konf.

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			

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- 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=3RW4028-2BB04

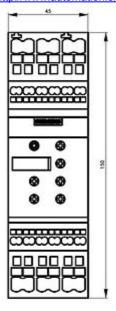
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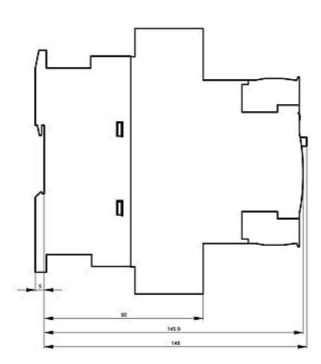
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-2BB04

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

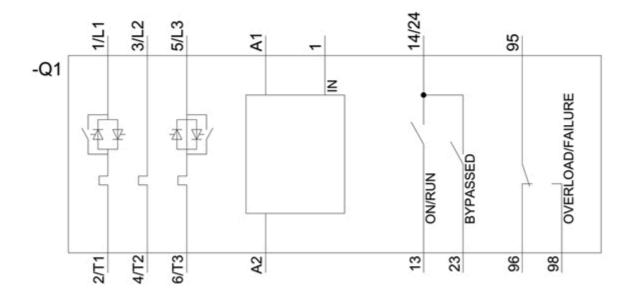
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-2BB04&lang=en









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