SIEMENS

Data sheet 3RW4024-2BB04



SIRIUS soft starter S0 12.5 A, 5.5 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	12.5
 at 50 °C rated value 	Α	11
at 60 °C rated value	A	10
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	3 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	5 500
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	3
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	%	-15
standard circuit		

standard circuit		
	%	20
minimum load [%] adjustable motor current for motor overload	. % A	5
protection minimum rated value	A	9
continuous operating current [% of le] at 40 °C	· %	115
power loss [W] at operational current at 40 °C during	W	2
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 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	40
wire length maximum	mm m	300
wire length maximum number of poles for main current circuit	-	
wire length maximum number of poles for main current circuit Connections/ Terminals	-	300
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	-	300
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit	-	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	-	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	-	spring-loaded terminals spring-loaded terminals 0
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 number of NO contacts for auxiliary contacts	-	spring-loaded terminals spring-loaded terminals 0 2
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	-	spring-loaded terminals spring-loaded terminals 0
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	-	spring-loaded terminals spring-loaded terminals 0 2 1
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	-	spring-loaded terminals spring-loaded terminals 0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	-	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
Certificates/ approvals		



General Product Approval











LRS

EMC

For use in hazardous locations	Declaration of Conformity		Test Certificates		Marine / Shipping
$\langle \varepsilon_x \rangle$	<u>Miscellaneous</u>	CE	Type Test Certificates/Test	Special Test Certificate	Lloyd's Register

Marine / Shipping

ATEX

other





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	3
● at 460/480 V		

hp

7.5

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=3RW4024-2BB04

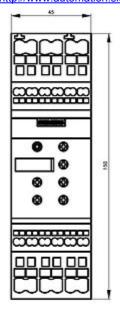
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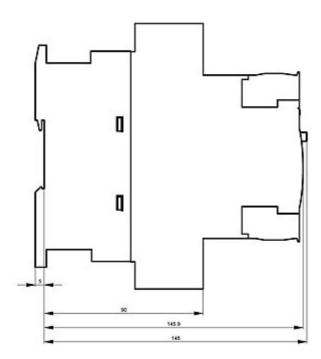
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-2BB04

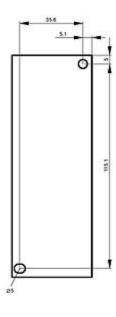
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

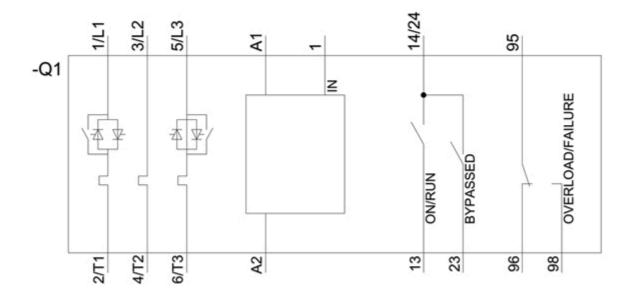
https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-2BB04&lang=en









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