SIEMENS

Data sheet 3RW40 24-1BB15



SIRIUS SOFT STARTER, S0, 12.5A, 7.5KW/500V, 40 DEGR., AC 400-600V, AC/DC 110-230V, SCREW TERMINALS

General technical data			
product brandname	SIRIUS		
 Product equipment Integrated bypass contact 	Yes		
system			
 Product feature 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		
Equipment marking acc. to DIN EN 61346-2	Q		
Equipment marking acc. to DIN 40719 extended	G		
according to IEC 204-2 acc. to IEC 750			
Power Electronics			
Product designation	Soft starter		

Operating current				
• at 40 °C rated value	Α	12.5		
● at 50 °C rated value	Α	11		
• at 60 °C rated value	Α	10		
Mechanical power output for three-phase motors				
● at 400 V				
— at standard circuit at 40 °C rated value	W	5 500		
● at 500 V				
— at standard circuit at 40 °C rated value	W	7 500		
Operating frequency rated value	Hz	50 60		
Relative negative tolerance of the operating	%	-10		
frequency				
Relative positive tolerance of the operating frequency	%	10		
Operating voltage at standard circuit rated value	V	400 600		
Relative negative tolerance of the operating voltage at standard circuit	%	-15		
Relative positive tolerance of the operating voltage at standard circuit	%	10		
Minimum load [% of IM]	%	20		
Adjustable motor current for motor overload protection minimum rated value	Α	5		
Continuous operating current [% of le] at 40 °C	%	115		
Power loss [W] at operating current at 40 °C during	W	2		
operation typical				
Control electronics				
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	%	10		

Control electronics		
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
	%	40
Relative positive tolerance of the control supply voltage frequency	70	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 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
Mounting type		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
for auxiliary and control current 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		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 conductors 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 at AWG conductors		
• for auxiliary contacts		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)

Ambient conditions

Installation altitude at height above sea level

5 000

Environmental category		
 during transport acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
● during storage acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 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 Prod	luct Approval		EMC	For use in
				hazardous
				locations
		<u> </u>		













Declaration of Conformity	Test Certificates	3	Shipping App	proval	
CE EG-Konf.	Special Test Certificate	Type Test Certificates/Test Report	GL GL	Lloyd's Register LRS	PRS

other

Environmental Confirmations

Confirmation

UL/CSA ratings				
Yielded mechanical performance [hp] for three-phase				
AC motor				
● at 460/480 V				
 at standard circuit at 50 °C rated value 	hp	7.5		
● at 575/600 V				

- at standard circuit at 50 °C rated value hp 10 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,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4024-1BB15

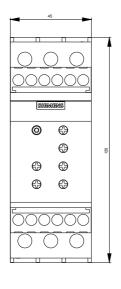
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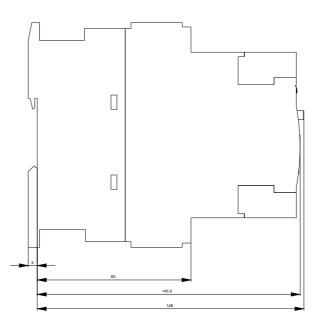
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-1BB15

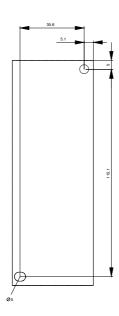
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

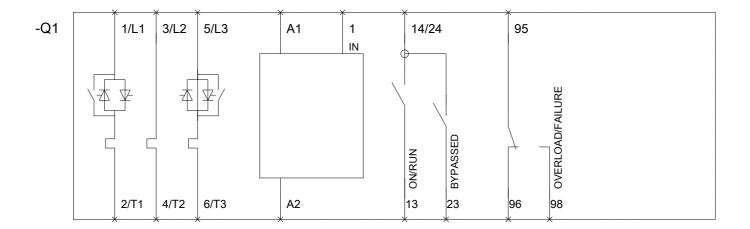
https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-1BB15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-1BB15&lang=en









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