## **SIEMENS**

## Data sheet

## 3RW40 24-1BB05



SIRIUS SOFT STARTER, S0, 12.5A, 7.5KW/500V, 40 DEGR., AC 400-600V, AC/DC 24V, SCREW TERMINALS

General technical data	
product brandname	SIRIUS
<ul> <li>Product equipment Integrated bypass contact</li> </ul>	Yes
system	
<ul> <li>Product feature Thyristors</li> </ul>	Yes
Product function	
<ul> <li>Intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	No
• External reset	Yes
<ul> <li>Adjustable current limitation</li> </ul>	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	А	12.5
• at 50 °C rated value	А	11
● at 60 °C rated value	А	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	А	5
protection minimum rated value		
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	%	
Tonayo Iloquolloy	70	-10
Relative positive tolerance of the control supply voltage frequency	%	-10 10
Relative positive tolerance of the control supply		
Relative positive tolerance of the control supply voltage frequency		
Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 at AC	%	10
Relative positive tolerance of the control supply voltage frequency         Control supply voltage 1 at AC         • at 50 Hz rated value	% V	10 24
Relative positive tolerance of the control supply voltage frequency         Control supply voltage 1 at AC         • at 50 Hz rated value         • at 60 Hz rated value         Relative negative tolerance of the control supply	% V V	10 24 24
Relative positive tolerance of the control supply voltage frequency         Control supply voltage 1 at AC         • at 50 Hz rated value         • at 60 Hz rated value         Relative negative tolerance of the control supply voltage at AC at 60 Hz         Relative positive tolerance of the control supply	% V V %	10 24 24 -20
Relative positive tolerance of the control supply voltage frequency         Control supply voltage 1 at AC         • at 50 Hz rated value         • at 60 Hz rated value         Relative negative tolerance of the control supply voltage at AC at 60 Hz         Relative positive tolerance of the control supply voltage at AC at 60 Hz         Relative positive tolerance of the control supply voltage at AC at 60 Hz	% V V %	10 24 24 -20 20

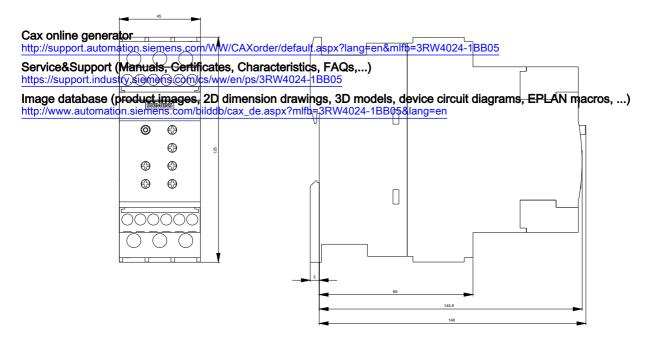
Display version for fault signal		red
Mechanical data		
Size of engine control device		SO
Width	mm	45
Height	mm	125
Depth	mm	155
Mounting type		screw and snap-on mounting
Mounting position	_	With additional fan: With vertical mounting surface +/- 90° rotatable, with vertical mounting surface +/- 22.5° 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
Installation altitude at height above sea level	m	5 000
Wire length maximum	m	300
Number of poles for main current circuit	_	3
Connections/Terminals		
Type of electrical connection	_	
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		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
<ul> <li>finely stranded with core end processing</li> </ul>		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		
<ul> <li>using the front clamping point</li> </ul>		1x 8, 2x (16 10)
Type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)

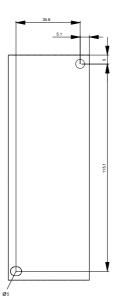
bient conditions						
mbient temperature	9					
<ul> <li>during operation</li> </ul>	on	°(	C	-25 +60		
<ul> <li>during storage</li> </ul>		°(	0	-40 +80		
erating temperatur	e	°(	C	40		
rotection class IP				IP20		
ertificates/approva	als					
General Produc	t Approval				EMC	For use in hazardous locations
	(SA) CSA		EF	][	C-Tick	ATEX ATEX
Declaration of Conformity	Test Certificates		Ship	ping Appro	val	
CE	spezielle Prüfbescheinigunge <u>n</u>	Typprüfbescheinig ng/Werkszeugnis			Llovd's Register	
EG-Konf.	-		G	L	LRS	PRS
other						
Umweltbestätigung	Bestätigungen					

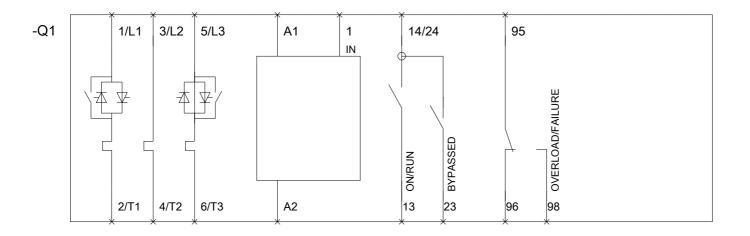
UL/CSA ratings		
Yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	7.5
● at 575/600 V		
— at standard circuit at 50 °C rated value	hp	10
Contact rating of auxiliary contacts according to UL		B300 / R300

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=3RW4024-1BB05







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