SIEMENS

Data sheet 3RW40 24-2TB05



SIRIUS SOFT STARTER, S0, 12.5A, 7.5KW/500V, 40 DEGR., AC 400-600V, AC/DC 24V, SPRING-LOADED TERMINALS, THERMISTOR MOTOR PROTECTION

General technical data:		
product brand name	S	IRIUS
Product feature		
 integrated bypass contact system 	Y	'es
Thyristors	Y	'es
Product function		
 Intrinsic device protection 	Y	'es
 motor overload protection 	Y	'es
 Evaluation of thermistor motor protection 	Y	'es
External reset	Y	'es
 Adjustable current limitation 	Y	'es
• inside-delta circuit	N	lo
Product component Motor brake output	N	lo
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 starters for standard applications
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 in % of I_M	%	20
Adjustable motor current for motor overload protection minimum rated value	Α	5
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss 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 voltage frequency	%	10
Control supply voltage 1 with AC		
● at 50 Hz Rated value	V	24
• at 60 Hz Rated value	V	24
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-20
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	20
Control supply voltage 1 for DC Rated value	V	24
Relative negative tolerance of the control supply voltage for DC	%	-20
Relative positive tolerance of the control supply	%	20

Mechanical data:		
Size of engine control device		S0
Width	mm	45
Height	mm	150
Depth	mm	155

voltage for DC

Display version for fault signal

red

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
Cable length maximum	m	300
Number of poles for main current circuit		3
Connections/ Terminals:		
Type of electrical connection		
for main current circuit		spring-loaded terminals
• for auxiliary and control current circuit		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-section for main contacts for box terminal using the front clamping point • solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
finely stranded with core end processing		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal • using the front clamping point		1x 8, 2x (16 10)
Type of connectable conductor cross-section for main contacts		
• solid		1 10 mm²
finely stranded with core end processing		1 6 mm²
Type of connectable conductor cross-section for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)

AWG conductors	
• for main contacts	16 10, 1x 8
• for auxiliary contacts	2x (24 14)
Ambient conditions	
Ambient conditions:	
Ambient temperature	

Type of connectable conductor cross-section for

during operation	°C	-25 + 60
during storage	°C	-40 + 80
Derating temperature	°C	40
Protection class IP		IP20

Certificates/ approvals:

General Product Approval

EMC
For use in hazardous locations













Test Certificates

Shipping Approval

Special Test Certificate Type Test
Certificates/Test
Report





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other

Declaration of
ConformityEnvironmental
Confirmations

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	7.5
● at 575/600 V		
— at standard circuit at 50 °C Rated value	metric hp	10
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

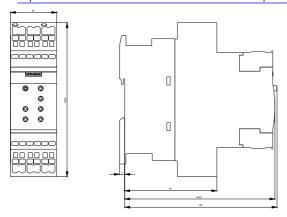
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40242TB05

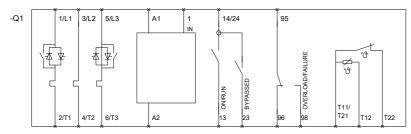
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RW40242TB05/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40242TB05&lang=en







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