SIEMENS

Data sheet

3RW40 28-1BB05



SIRIUS SOFT STARTER, S0, 38A, 22KW/500V, 40 DEGR., AC 400-600V, AC/DC 24V, SCREW 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	
Equipment marking acc. to DIN EN 61346-2		Q	
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G	

Power Electronics:			
Product designation		soft starters for standard applications	
Operating current			
• at 40 °C Rated value	А	38	
• at 50 °C Rated value	А	34	
• at 60 °C Rated value	А	31	
Mechanical power output for three-phase motors			
• at 400 V			

— at standard circuit at 40 °C Rated value	W	18 500
● at 500 V		
— at standard circuit at 40 °C Rated value	W	22 000
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	A	23
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	19
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	%	-10
voltage frequency	,0	
Relative positive tolerance of the control supply	%	10
voltage frequency		
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 voltage for DC	%	20
Display version for fault signal		red
Mechanical data:		
Size of engine control device		S0
Width	mm	45
Height	-	
	mm	125
Depth	mm	125

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 		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-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 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-section for AWG conductors		
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)
Ambient conditions:		
Ambient temperature		
 during operation 	°C	-25 +60
• during storage	°C	-40 +80
Derating temperature	°C	40

Protection class IP			IP20		
rtificates/ approv	/als:				
General Produc	t Approval			EMC	For use in hazardous locations
	CSA		EHC	С-тіск	ATEX
Test Certificates	8	Shipping Ap	proval		
Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>		GL	Lloyd's Kegister	PRS
other					
Environmental Confirmations	Declaration of Conformity				

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	25		
	hp			
● at 575/600 V				
— at standard circuit at 50 °C Rated value	metric	30		
	hp			
Contact rating of the auxiliary contacts acc. to UL		B300 / R300		
Further information	_			
Further information				
Information- and Downloadcenter (Catalogs, Brochures http://www.siemens.com/industrial-controls/catalogs	5,)			
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=3RW40281BB05				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RW40281BB05/all				
Image database (product images, 2D dimension drawir	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)			







