SIEMENS

Data sheet

3RW40 73-2BB45



SIRIUS SOFT STARTER, S12, 230 A, 160 KW/500 V, 40 DEG., 400-600 V AC, 230 V AC, CAGE CLAMP 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:		
	soft starters for standard applications	
А	230	
А	205	
А	180	
	A	

— at standard circuit at 40 °C Rated value	W	132 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	160 000
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	А	80
protection minimum rated value		
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	90
operation typical		
Control electronics:		
Type of voltage of the control supply voltage		AC
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		
Relative positive tolerance of the control supply	%	10
voltage frequency		
Control supply voltage 1 with AC		
• at 50 Hz Rated value	V	230
 at 60 Hz Rated value 	V	230
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-15
Relative positive tolerance of the control supply	%	10
voltage with AC at 60 Hz		
Display version for fault signal		red
Mechanical data:		
Size of engine control device		S12
Width	mm	160
Height	mm	230
Depth	mm	278
Mounting type		screw fixing

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	100
• at the side	mm	5
downwards	mm	75
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	300
Number of poles for main current circuit		3

Type of electrical connection	
 for main current circuit 	busbar connection
 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	
 finely stranded with core end processing 	70 240 mm²
 finely stranded without core end processing 	70 240 mm²
• stranded	95 300 mm²
Type of connectable conductor cross-section for	
main contacts for box terminal using the back	
clamping point	
 finely stranded with core end processing 	120 185 mm²
 finely stranded without core end processing 	120 185 mm²
• stranded	120 240 mm²
Type of connectable conductor cross-section for	
main contacts for box terminal using both clamping	
points	
 finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²
• stranded	max. 2x 70 mm ² , max. 2x 240 mm ²
Type of connectable conductor cross-section for	
AWG conductors for main contacts for box terminal	
 using the back clamping point 	250 500 kcmil
 using the front clamping point 	3/0 600 kcmil
 using both clamping points 	min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-section for DIN	
cable lug for main contacts	

 finely stranded 		50 240 m	nm²	
• stranded		70 240 m	ım²	
Type of connectable conductor cross-section for auxiliary contacts				
• solid		2x (0.25	1.5 mm²)	
 finely stranded with core end processing 		2x (0.25	1.5 mm²)	
Type of connectable conductor cross-section for AWG conductors				
• for main contacts		2/0 500 k	cmil	
 for auxiliary contacts 		2x (24 16	5)	
Ambient conditions:				
Ambient temperature				
 during operation 	°C	-25 +60		
• during storage	°C	-40 +80		
Derating temperature	°C	40		
Protection class IP		IP00		
Certificates/ approvals:				
Certificates/ approvals: General Product Approval			EMC	For use in hazardous locations
) [AC	EMC C-TICK	hazardous
General Product Approval) [:AC	C	hazardous locations
General Product Approval Image: Constraint of the second		En la constanta de la constanta de la constanta de la constant	С-тіск	hazardous locations

— at standard circuit at 50 °C Rated value	metric hp	150
● at 575/600 V		
— at standard circuit at 50 °C Rated value	metric	200
	hp	
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

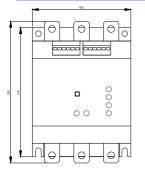
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

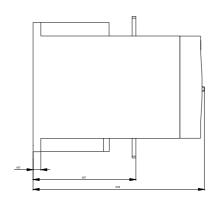
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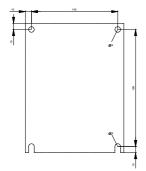
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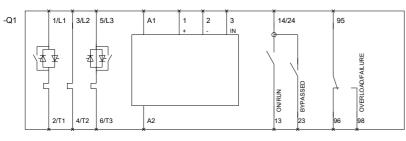
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40732BB45/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40732BB45&lang=en









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