SIEMENS

Data sheet

3RW30 46-1BB04



SIRIUS SOFT STARTER, SIZE S3, 80A, 45KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SCREW TERMINALS

product brand name	SIRIUS
Product feature	-
 integrated bypass contact system 	Yes
• Thyristors	Yes
Product function	
Intrinsic device protection	No
 motor overload protection 	No
 Evaluation of thermistor motor protection 	No
• External reset	No
Adjustable current limitation	No
• 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

	soft starters for standard applications
А	80
А	73
А	66
	A

	147	22.222
— at standard circuit at 40 °C Rated value	W	22 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	45 000
yielded mechanical performance [hp] for three-phase	metric	20
AC motor at 200/208 V at standard circuit at 50 °C	hp	
Rated value		
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	200 480
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	%	10
Continuous operating current [% of le] at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	12
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		
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	%	-15
voltage with AC at 60 Hz		
Relative positive tolerance of the control supply	%	10
voltage with AC at 60 Hz		
Control supply voltage 1 for DC Rated value	V	24
Relative negative tolerance of the control supply voltage for DC	%	-15
Relative positive tolerance of the control supply voltage for DC	%	10
Display version for fault signal		red
Mechanical data:		
Size of engine control device		S3
Width	mm	70
Height	mm	170

Depth	mm	190
Mounting type	-	screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
Required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	30
• 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	1
Number of CO contacts for auxiliary contacts	0
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point	
• solid	2x (2.5 16 mm²)
 finely stranded with core end processing 	2.5 35 mm ²
• stranded	4 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point	
• solid	2x (2.5 16 mm²)
 finely stranded with core end processing 	2.5 50 mm²
• stranded	10 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points	
• solid	2x (2.5 16 mm²)
 finely stranded with core end processing 	2x (2.5 35 mm²)
• stranded	2x (10 50 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal	
 using the back clamping point 	10 2/0
 using the front clamping point 	10 2/0
 using both clamping points 	2x (10 1/0)

E	EMC FIC Contraction Contractio	Test Certificates Type Test Certificates/Test Report
	EMC	Certificates
	EMC	
	IP00	
°C		
°C	-25 +60	
	2x (20 14)	
-		
	2x (0.5 1.5 mm²)	
	2x (0.5 2.5 mm²)	
-	2x (10 70 mm²)	
	°C °C °C	2x (0.5 1.5 mm ²) 2x (7 1/0) 2x (20 14) °C -25 +60 °C -40 +80

Test	other		
Certificates			
Special Test	Environmental	Declaration of	other
Certificate	Confirmations	Conformity	

yielded mechanical performance [hp] for three-phase AC motor		
● at 220/230 V		
— at standard circuit at 50 °C Rated value	metric hp	25
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	50

Contact rating of the auxiliary contacts acc. to UL

B300 / R300

Further information

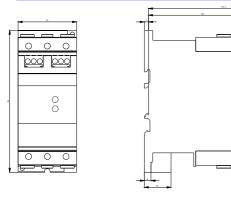
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

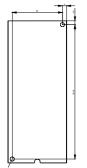
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

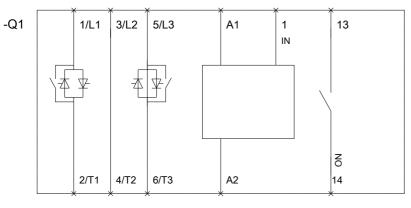
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW30461BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW30461BB04&lang=en







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