SIEMENS

Product data sheet 3RW4046-1BB04



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

General details:				
product brand name	112,	SIRIUS	Ny,	71,11
Product equipment	2			
integrated bridging contact system		Yes		
• thyristors		Yes		
Product function	.300			
intrinsic device protection		Yes		
motor overload protection		Yes		
evaluation of thermal resistor motor protection		No		
• reset external		Yes		
adjustable current limitation		Yes		
• inside-delta circuit		No		
Product component / outlet for enine brake	True,	No		
Reference code				
according to DIN EN 61346-2		Q Q		
 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 		G		

Power Electronics:					The Contract of the Contract o
Product designation	19	23	soft starters for stance	lard applications	1,
Operating current	23	Ž. Ž.			

• at 40 °C / rated value	Α	80		
• at 50 °C / rated value	Α	73		
• at 60 °C / rated value	A	66		
Emitted mechanical power / for three-phase servomotors				
• at 230 V / at standard switching / at 40 °C				
• rated value	W	22,000		
• at 400 V / at standard switching / at 40 °C				
• rated value	W	45,000		
yielded mechanical performance [hp] / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated value	hp	20		
Operating frequency				
• rated value	Hz	50 60		
Relative negative tolerance / of the operating frequency	%	-10		
Relative positive tolerance / of the operating frequency	%	10		
Operating voltage / with standard circuit / rated value	V	200 480		
Relative negative tolerance / of the operating voltage / with standard circuit	%	-15		
Relative positive tolerance / of the operating voltage / with standard circuit	%	10		
Minimum load in % of I_M	%	20		
Adjustable rated current of the motor / for motor overload protection / minimum	Α	43		
Continuous operating current in % of I_e / at 40°C	%	115		
Active power loss / at operating current / at 40°C / during operating phase / typical	W	12		
Control electronics:	. 200		The state of the s	100
Voltage type / of control feed voltage	1444	AC/DC	Selection .	"May.
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		.85
Relative positive tolerance / of the control supply voltage frequency	%	10		antidba.
Control supply voltage / 1				
• for AC / at 50 Hz	V	24		
• for AC / at 60 Hz	V	24		
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-20		
Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC	%	20		

Control supply voltage / 1 / for DC / rated value

24

Relative negative tolerance / of the control supply voltage / for DC	%	-20	
Relative positive tolerance / of the control supply voltage / for DC	%	20	
Type of display / for fault signal		red	

Mechanical design:	, à		Ś	Š
Size of the engine control device	"ight"		S3	3174
Width	"AfOLL	mm	70	
Height	790,	mm	170	
Depth	m	mm	190	
Mounting type			screw and snap-on mounting	
mounting position			With additional fan: With vertical mo tiltable to the front and back W With vertical mounting surface vertical mounting surface +/- 4	unting surface +/- 22.5° Vithout additional fan: e +/-10° rotatable, with
Distance, to be maintained, to the ranks	assembly			
• upwards		mm	60	
• sidewards		mm	30	
• downwards		mm	40	
Installation altitude / at a height over se	a level	m	5,000	
Cable length / maximum	"141'OL	m	300	
Number of poles / for main current circu	uit 33		3	

Electrical connections:			100
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit	, th. [4]. [5]	screw-type terminals	Stray
Number of NC contacts / for auxiliary contacts	272,	0	
Number of NO contacts / for auxiliary contacts		2	
Number of changeover contacts / for auxiliary contacts		1 1	
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point • solid • finely stranded / with conductor end processing	Walifely a	2x (2.5 16 mm2) 2.5 35 mm ²	
• stranded		4 70 mm2	
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point			
• solid		2x (2.5 16 mm2)	
finely stranded / with conductor end processing		2.5 50 mm ²	
• stranded		10 70 mm2	

Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points			
• solid		2x (2.5 16 mm2)	
finely stranded / with conductor end processing		2x (2.5 35 mm²)	
• stranded		2x (10 50 mm2)	
Type of the connectable conductor cross-section / for AWG			
conductors / for main contacts / for box terminal		- 19 ₁₀	
when using the back cl		2x (10 1/0)	
when using the front c		2x (10 1/0)	
when using both clampi		10 2/0	
Type of the connectable conductor cross-section / for DIN cable lug / for main contacts			
• finely stranded		2 x (10 50 mm2)	
• stranded		2x (10 70 mm2)	
Type of the connectable conductor cross-section	~0)		
for AWG conductors / for main contacts		2x (7 1/0)	
Type of the connectable conductor cross-section	27,		
• for auxiliary contacts			
• solid		2x (0.5 2.5 mm²)	
finely stranded / with conductor end processing		2x (0.5 1.5 mm²)	
for AWG conductors / for auxiliary contacts		2x (20 14)	
finely stranded / with wire end proc		2x (20 16)	

Ambient conditions:	6		9	9	
Ambient temperature	13/c.,		70/20.	23/2°.	
during operating		°C	-25 +60		
during storage		°C	-40 +80		
Derating temperature	The state of the s	°C	40		
Protection class IP			IP00		

Certificates/approvals:

General Product Approval

EMC

For use in hazardous locations













Test Certificates

Shipping Approval

Special Test Certificate Type Test
Certificates/Test
Report









other

Declaration of
ConformityEnvironmental
Confirmations

UL/CSA ratings

yielded mechanical performance [hp] / for three-phase squirrel cage motors

• at 220/230 V / at standard circuit

at 50 °C / rated value

• at 460/480 V / at standard circuit

• at 50 °C / rated value

Contact rating designation / for auxiliary contacts / according to UL

ip 25

np 50

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/industrial-controls/mall

CAx-Online-Generator

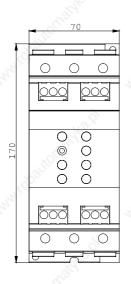
http://www.siemens.com/cax

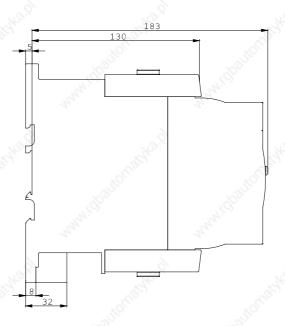
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RW4046-1BB04/all

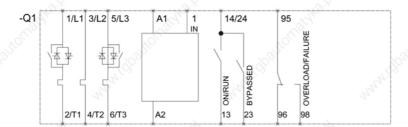
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4046-1BB04









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