SIEMENS

Data sheet

3RW4076-6BB44



SIRIUS soft starter S12 432 A, 250 kW/400 V, 40 °C 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5076-6AB14<<

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
insulation voltage rated value	V	600
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	432
• at 50 °C rated value	А	385
• at 60 °C rated value	А	335
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	132
• at 400 V		
— at standard circuit at 40 °C rated value	kW	250
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	125
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 at standard circuit rated value	V	200 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	207

continuous operating current [% of le] at 40 °C % 115 power loss [W] at operational current at 40 °C during W 165	
Free free free free free free free free	
operation typical	
Control circuit/ Control	_
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 voltage % -10	
relative positive tolerance of the control supply voltage % 10 frequency % 10	
control supply voltage 1 at AC	
• at 50 Hz rated value V 230	
at 60 Hz rated value V 230	
relative negative tolerance of the control supply voltage at % -15 AC at 50 Hz	
relative positive tolerance of the control supply voltage at % 10 AC at 50 Hz 10	
relative negative tolerance of the control supply voltage at % -15	
relative positive tolerance of the control supply voltage at%10AC at 60 Hz10	
display version for fault signal red	
Mechanical data	
size of engine control device S12	
width mm 160	
height mm 230	
depth mm 278	
fastening method screw fixing	
mounting position With additional fan: With vertical mounting sur rotatable, with vertical mounting surface +/- 22 front and back Without additional fan: With vertical mounting surface +/- 10° rotatable, with vertical mounting	2.5° tiltable to the rtical mounting
required spacing with side-by-side mounting	
• upwards mm 100	
• at the side mm 5	
• downwards mm 75	
wire length maximum m 300	
number of poles for main current circuit 3	
Connections/ Terminals	
type of electrical connection	
for main current circuit busbar connection	
for auxiliary and control 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-sections for main contacts for box terminal using the front clamping point	
• finely stranded with core end processing 70 240 mm ²	
• finely stranded without core end processing 70 240 mm ²	
• stranded 95 300 mm ²	
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	
contacts for box terminal using the back clamping point	
• finely stranded with core end processing 120 185 mm²	
• finely stranded with core end processing 120 185 mm² • finely stranded without core end processing 120 185 mm²	
contacts for box terminal using the back clamping point 120 185 mm² • 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-sections for main 120 240 mm²	
contacts for box terminal using the back clamping point 120 185 mm² • 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-sections for main contacts for box terminal using both clamping points Image: Contact of the section of the	
contacts for box terminal using the back clamping point 120 185 mm² • 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-sections for main contacts for box terminal using both clamping points min. 2x 50 mm², max. 2x 185 mm²	
contacts for box terminal using the back clamping point120 185 mm²• finely stranded with core end processing120 185 mm²• finely stranded without core end processing120 185 mm²• stranded120 240 mm²type of connectable conductor cross-sections for main contacts for box terminal using both clamping pointsmin. 2x 50 mm², max. 2x 185 mm²• finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²	
contacts for box terminal using the back clamping point• finely stranded with core end processing120 185 mm²• finely stranded without core end processing120 185 mm²• stranded120 185 mm²• stranded120 240 mm²type of connectable conductor cross-sections for main contacts for box terminal using both clamping pointsmin. 2x 50 mm², max. 2x 185 mm²• finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²• finely stranded without core end processingmin. 2x 50 mm², max. 2x 185 mm²• strandedmax. 2x 70 mm², max. 2x 240 mm²type of connectable conductor cross-sections for AWGtype of connectable conductor cross-sections for AWG	

				0 500 1 1	
using both clamping points			min. 2x 2/0, ma	ax. 2x 500 kcmil	
type of connectable conductor cro lug for main contacts	oss-sections for DIN cable				
finely stranded			50 240 mm²		
• stranded			70 240 mm²	70 240 mm²	
type of connectable conductor cro contacts	oss-sections for auxiliary				
• solid			2x (0.5 2.5 m	רm²)	
 finely stranded with core end 	 finely stranded with core end processing 		2x (0.5 1.5 mm²)		
type of connectable conductor cro cables	oss-sections for AWG				
for main contacts			2/0 500 kcmi	il	
 for auxiliary contacts 			2x (20 14)		
 for auxiliary contacts finely str processing 	anded with core end		2x (20 16)		
Ambient conditions					
installation altitude at height abov	/e sea level	m	5 000		
environmental category					
during transport according to	IEC 60721		2K2, 2C1, 2S1,	, 2M2 (max. fall height ().3 m)
 during storage according to IE 	EC 60721		1K6 (only occa (sand must not	sional condensation), 1 get inside the devices)	C2 (no salt mist), 1S2 , 1M4
 during operation according to 	IEC 60721			ion of ice, no condensa It not get into the device	tion), 3C3 (no salt mist), es), 3M6
ambient temperature					
 during operation 		°C	-25 +60		
 during storage 		°C	-40 +80		
derating temperature		°C	40		
protection class IP on the front ac	cording to IEC 60529		IP00; IP20 with	cover	
touch protection on the front acco	ording to IEC 60529		finger-safe, for	vertical contact from th	e front with cover
touch protection on the front acco Certificates/ approvals	ording to IEC 60529		finger-safe, for	vertical contact from th	e front with cover
-	ording to IEC 60529		finger-safe, for	vertical contact from th	e front with cover
Certificates/ approvals	ccc		finger-safe, for	ERC	
Certificates/ approvals	CCC	ing	finger-safe, for	ertical contact from th	
Certificates/ approvals General Product Approval	CCC	ing	finger-safe, for	EAC	
Certificates/ approvals General Product Approval	CCC	ing	finger-safe, for	EAC	
Certificates/ approvals General Product Approval	CCC	ing	finger-safe, for	EAC	
Certificates/ approvals General Product Approval Certificates/ approval Certificates/ approvals Certificates/ approval Certificates/ approval Test Certificates Certificates/ approval Test Certificates Certificates/ approval Certificates/ approval Test Certificates Certificates/ approval Certificates/ approval Certif	ificates Marine / Shipp	ing	finger-safe, for	EAC	
Certificates/ approvals General Product Approval	ificates Marine / Shipp	ing	finger-safe, for	EAC	
Certificates/ approvals General Product Approval Certificates/ approval Certificates/ approvals Certificates/ approval Certificates/ approval Certificates/ approval Test Certificates Certificates/ approval Certificates/ approval Test Certificates Certifo Certificates Certificates	ificates Marine / Shipp	ing	finger-safe, for	EAC	
Certificates/ approvals General Product Approval Contemporal Contemporal Declaration of Con- formity Test Certification EG-Konf.	ificates Marine / Shipp Residence of the second se	ing	finger-safe, for	EAC	
Certificates/ approvals General Product Approval CSA Declaration of Con- formity Test Certi CEG-Konf. UL/CSA ratings yielded mechanical performance • at 220/230 V	ificates Marine / Shipp Residence of the second se			EAC	
Certificates/ approvals General Product Approval General Product Approval Declaration of Con- formity Test Certi CEG-Konf. UL/CSA ratings yielded mechanical performance [• at 220/230 V — at standard circuit at 50	ificates Marine / Shipp ificates Controls of the second s			EAC	







