SIEMENS

Data sheet

3RW4074-6BB44



SIRIUS soft starter S12 280 A, 160 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 >>3RW5074-6AB14<<

Consultashuisel data		
General technical data		
product brand name		SIRIUS
product feature		N/
 integrated bypass contact system 		Yes
thyristors		Yes
product function		N/
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	280
• at 50 °C rated value	А	248
• at 60 °C rated value	А	215
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	kW	90
● at 400 V		
 — at standard circuit at 40 °C rated value 	kW	160
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	75
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	A	130

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	90
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 frequency	%	-10
relative positive tolerance of the control supply	%	10
voltage frequency	70	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	%	-15
voltage at AC at 50 Hz		
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
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 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
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 number of CO contacts for auxiliary contacts		2
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 mm²
 finely stranded without core end processing 		70 240 mm²
stranded		95 300 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 		120 185 mm²
 finely stranded with core end processing finely stranded without core end processing 		120 185 mm²
stranded stranded		120 240 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping		
points		
 finely stranded with core end processing 		min. 2x 50 mm ² , max. 2x 185 mm ²
 finely stranded without core end processing 		min. 2x 50 mm ² , max. 2x 185 mm ²
• stranded		max. 2x 70 mm ² , max. 2x 240 mm ²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		

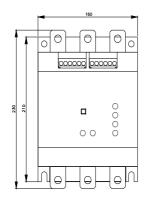
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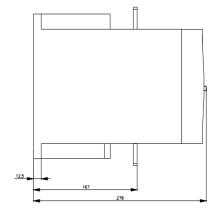
 using the front using both clant type of connectable cable lug for main c finely stranded stranded type of connectable auxiliary contacts solid finely stranded type of connectable cables for main contact for auxiliary contacts 	nping points conductor cross-sect contacts conductor cross-sect with core end processir conductor cross-sect	tions for ng tions at AWG		250 500 kc 3/0 600 kcr min. 2x 2/0, m 50 240 mm 70 240 mm 2x (0.5 2.5 2x (0.5 1.5 2/0 500 kcr 2x (20 14) 2x (20 16)	nil nax. 2x 500 kcmil ² ² mm²) mm²)	
	at height above sea le	vel	m	5 000		
installation altitude at height above sea level environmental category • during transport according to IEC 60721 • during storage according to IEC 60721 • during operation according to IEC 60721		m	5 000 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt			
during operatio during storage derating temperatur protection class IP 60529	 ambient temperature during operation during storage derating temperature protection class IP on the front according to IEC 		ວ° ວ° ວ	-25 +60 -40 +80 40 IP00; IP20 wit	ist), 3S2 (sand must not get into the devices), 3M6 5 +60 0 +80	
-	the front according to	DIEC 60529		finger-safe, fo	r vertical contact from	the front with cover
Certificates/ approval	ls					
General Product Ap	oproval					EMC
(S) M	œ	<u>Confirmatic</u>	<u>חנ</u>	(UL)	EHC	RCM
Declaration of Conformity	ccc	Confirmatic	_	UL UL	other	RCM
	Test Certificates Special Test Certific- ate		_		Confirmation	RCM
Conformity CEG-Konf.	Special Test Certific-		_			RCM
Conformity CEG-Konf.	Special Test Certific-	Marine / Ship	_			RCM
Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 220/230 V	Special Test Certific- ate	Marine / Ship	_			RCM
Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 220/230 V — at standar • at 460/480 V — at standar	Special Test Certific- ate	Marine / Ship	ping	100 200		RCM
Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 220/230 V — at standar • at 460/480 V — at standar contact rating of au	Special Test Certific- ate	Marine / Ship	hp	100		RCM
Conformity Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 220/230 V at standar • at 460/480 V at standar contact rating of au Further information Simulation Tool for https://support.indust Information- and Do https://www.siemens. Industry Mall (Onlin	Special Test Certific- ate performance [hp] for 3 d circuit at 50 °C rated w d circuit at 50 °C rated w xiliary contacts accord Soft Starters (STS) ry.siemens.com/cs/ww/re wunloadcenter (Catalog com/ic10 e ordering system)	Marine / Ship	hp hp hp hp	100 200 B300 / R300		
Conformity Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 220/230 V at standar • at 460/480 V at standar contact rating of au Further information Simulation Tool for https://support.indust Information- and Do https://www.siemens. Industry Mall (Onlin	Special Test Certific- ate performance [hp] for 3 d circuit at 50 °C rated v d circuit at 50 °C rated v xiliary contacts accord Soft Starters (STS) ry.siemens.com/cs/ww/e pwnloadcenter (Catalog com/ic10	Marine / Ship	hp hp hp hp	100 200 B300 / R300		Change without notice

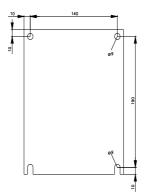
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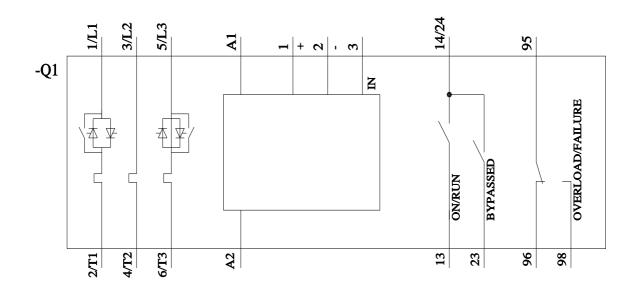
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