SIEMENS

Data sheet

3RW4074-6BB45



SIRIUS soft starter S12 280 A, 200 kW/500 V, 40 °C 400-600 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5074-6AB15<<

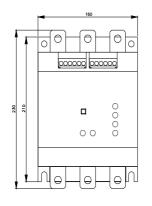
General technical data		
product brand name		SIRIUS
•		SIRIUS
product feature		Ver
 integrated bypass contact system 		Yes
• thyristors		res
product function		Vec
intrinsic device protection		Yes
motor overload protection		Yes
 evaluation of thermistor motor protection 		No
• external reset		Yes
adjustable 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 400 V		
 — at standard circuit at 40 °C rated value 	kW	160
• at 500 V		
— at standard circuit at 40 °C rated value	kW	200
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	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 [%]	%	20
adjustable motor current for motor overload	A	130
protection minimum rated value		
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	90

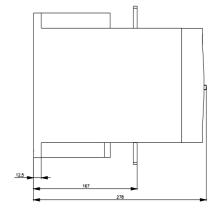
Control circuit/ Control		
		AC
type of voltage of the control supply voltage	11-	AC 50
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated value	Hz	60
relative negative tolerance of the control supply voltage frequency	%	-10
relative positive tolerance of the control supply voltage 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 AC at 50 Hz	%	-15
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		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 mm²
 finely stranded with core end processing 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		100 105 3
finely stranded with core end processing		120 185 mm ²
 finely stranded without core end processing 		120 185 mm ²
• stranded		120 240 mm²
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 with one one processing finely stranded without core end processing 		min. $2x 50 \text{ mm}^2$, max. $2x 185 \text{ mm}^2$
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		
 using the back clamping point 		250 500 kcmil
 using the front clamping point 		3/0 600 kcmil

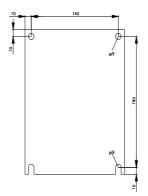
 using both clar type of connectable 	mping points conductor cross-sect	ions for DIM		min. 2x 2/0, n	nax. 2x 500 kcmil		
cable lug for main c							
 finely stranded 				50 240 mm	1 ²		
 stranded 				70 240 mm	1 ²		
type of connectable	e conductor cross-sect	ions for					
auxiliary contacts							
 solid 					2x (0.5 2.5 mm²)		
 finely stranded with core end processing type of connectable conductor cross-sections at AWG 			2x (0.5 1.5	2x (0.5 1.5 mm²)			
type of connectable cables	e conductor cross-sect	ions at AWG					
• for main contac	oto			2/0 500 kg	mil		
for auxiliary contacts				2/0 500 kcmil 2x (20 14)			
 for auxiliary contacts finely stranded with core end 			2x (20 14) 2x (20 16)				
processing			2X (20 10)	2x (20 10)			
Ambient conditions							
installation altitude	at height above sea le	vel	m	5 000			
environmental cate							
during transport according to IEC 60721				2K2, 2C1, 2S	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
•	according to IEC 60721				asional condensation), 1	,	
	-			1S2 (sand mi	ust not get inside the dev	vices), 1M4	
 during operation 	on according to IEC 6072	21			ation of ice, no condensa		
ambient torrest				mist), 3S2 (sa	and must not get into the	devices), 3106	
ambient temperatur			°C	25 100			
 during operation during storage 			С° С	-25 +60 -40 +80			
 during storage derating temperature 			ວ°	-40 +80 40			
	on the front according	to IEC	C	IP00; IP20 wi	th cover		
60529	on the nont according			11 00, 11 20 Wi			
touch protection on	the front according to	IEC 60529		finger-safe, fo	or vertical contact from th	ne front with cover	
Certificates/ approva	ls						
General Product A						EMC	
	P.P						
	Confirmation					-	
	Commation)	Ű	EHC	RCM	
Declaration of Conformity	Test Certificates	CCC	oping	U.	ERC other	RCM	
		Marine / Ship	oping		ERF other <u>Confirmation</u>	RCM	
Conformity CE EG-Konf.	Test Certificates	Lloyds Register	pping			RCM	
Conformity CEG-Konf. UL/CSA ratings	Test Certificates Special Test Certific- ate	Lloyds Register uts	oping			RCM	
Conformity CEG-Konf. UL/CSA ratings yielded mechanical	Test Certificates	Lloyds Register uts	oping			RCM	
Conformity CEG-Konf. UL/CSA ratings yielded mechanical motor	Test Certificates Special Test Certific- ate	Lloyds Register uts	pping			RCM	
Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V	Test Certificates Special Test Certific- ate	Llovds Register uks				RCM	
Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V	Test Certificates Special Test Certificates ate performance [hp] for 3	Llovds Register uks	p ping			RCM	
Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V	Test Certificates Special Test Certificates ate performance [hp] for 3	Llovds Register uts				RCM	
Conformity Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar	Test Certificates Special Test Certific- ate performance [hp] for 3	Joyds Register uts 3-phase AC value value	hp			RCM	
Conformity Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar	Test Certificates Special Test Certificates Special Test Certificates ate performance [hp] for 3 rd circuit at 50 °C rated v rd circuit at 50 °C rated v	Joyds Register uts 3-phase AC value value	hp	250			
Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for	Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w	3-phase AC value ding to UL	hp	250			
Conformity Conformity Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust	Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated v rd circuit at 50 °C rated v rxiliary contacts accord Soft Starters (STS) try.siemens.com/cs/ww/e	3-phase AC value ding to UL	hp	250			
Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the	Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w	A-phase AC value value ding to UL	hp hp hp	250			
Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust	Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated v rd circuit at 50 °	A-phase AC value ding to UL	hp hp <u>hp</u> <u>917</u>	250			
Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust	Test Certificates Special Test Certificates Special Test Certificates ate performance [hp] for 3 rd circuit at 50 °C rated w	A-phase AC value ding to UL	hp hp <u>hp</u> <u>917</u>	250			
Conformity Confor	Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w	A-phase AC value ding to UL en/view/101494s gs, Brochures,	hp hp <u>17</u> <u>375</u>)	250 B300 / R300			
Conformity Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust Information- and Do https://www.siemens Industry Mall (Onlin	Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w rd circuit at 50 °	A-phase AC value ding to UL en/view/101494s gs, Brochures,	hp hp <u>17</u> <u>375</u>)	250 B300 / R300			
Conformity Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust Information- and Do https://www.siemens Industry Mall (Onlin	Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w	A-phase AC value ding to UL en/view/101494s gs, Brochures,	hp hp <u>17</u> <u>375</u>)	250 B300 / R300	Confirmation	kange without notice	

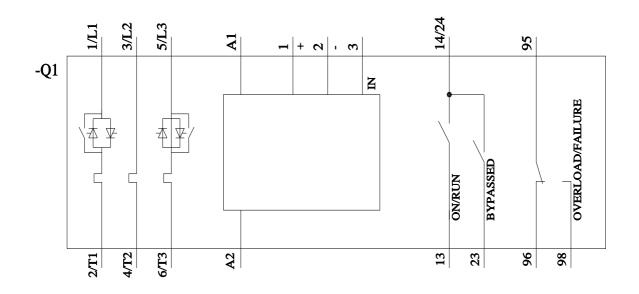
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4074-6BB45 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4074-6BB45 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4074-6BB45&lang=en









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