SIEMENS

Data sheet

3RW4076-6BB45



SIRIUS soft starter S12 432 A, 315 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 >>3RW5076-6AB15<<

Figure similar

General technical data		SIRIUS
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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. 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 400 V		
 — at standard circuit at 40 °C rated value 	W	250 000
● at 500 V		
— at standard circuit at 40 °C rated value	W	315 000
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	%	-15
standard circuit		

minimum load [%]	%	20
adjustable motor current for motor overload		207
protection minimum rated value	~	207
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	165
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 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 NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		0 2
number of NO contacts for auxiliary contacts		2
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front		2
number of NO contacts for auxiliary contactsnumber of CO contacts for auxiliary contactstype of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		2 1
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • finely stranded with core end processing		2 1 70 240 mm ²
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • finely stranded with core end processing • finely stranded without core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back		2 1 70 240 mm ² 70 240 mm ²
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • finely stranded with core end processing • finely stranded without core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		2 1 70 240 mm ² 70 240 mm ² 95 300 mm ²
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • finely stranded with core end processing • finely stranded without core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • finely stranded with core end processing		2 1 70 240 mm ² 70 240 mm ² 95 300 mm ² 120 185 mm ²
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • finely stranded with core end processing • finely stranded without core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		2 1 70 240 mm ² 70 240 mm ² 95 300 mm ²

type of connectable conductor cross-sec main contacts for box terminal using bot points					
 finely stranded with core end processi 	ng		min. 2x 50 mm	² , max. 2x 185 mm ²	
 finely stranded without core end proce 	-			² , max. 2x 185 mm ²	
stranded	Jeenig			n², max. 2x 240 mm²	
type of connectable conductor cross-sec cables for main contacts for box termina				. ,	
using the back clamping point			250 500 kcn	ail	
 using the front clamping point 			3/0 600 kcm		
 using the noncelamping point using both clamping points 				ax. 2x 500 kcmil	
type of connectable conductor cross-sec	tions for DIN		11111. ZX Z/0, 116	ax. 2x 300 komii	
cable lug for main contacts					
 finely stranded 			50 240 mm²		
stranded			70 240 mm²		
type of connectable conductor cross-sec	tions for				
auxiliary contacts					
• solid			2x (0.5 2.5 r	nm²)	
 finely stranded with core end procession 	ng		2x (0.5 1.5 r	nm²)	
type of connectable conductor cross-sec cables	tions at AWG				
 for main contacts 			2/0 500 kcm	il	
 for auxiliary contacts 			2x (20 14)		
 for auxiliary contacts finely stranded was a second strand strand	vith core end		2x (20 16)		
processing		_			
Ambient conditions		_	5.000	_	
installation altitude at height above sea le	evel	m	5 000		
environmental category			21/2 201 201	2M2 (may fall baigh	+ 0 2 m)
• during transport acc. to IEC 60721				, 2M2 (max. fall heigh	,
during storage acc. to IEC 60721				stional condensation) ast not get inside the de	
• during operation acc. to IEC 60721			3K6 (no format	tion of ice, no condena nd must not get into th	sation), 3C3 (no salt
ambient temperature					
 during operation 		°C	-25 +60		
 during storage 		°C	-40 +80		
derating temperature		°C	40		
protection class IP on the front acc. to IE	C 60529		IP00; IP20 with	n cover	
touch protection on the front acc. to \ensuremath{IEC}	60529		finger-safe, for	vertical contact from	the front with cover
Certificates/ approvals					
General Product Approval				EMC	For use in hazard ous locations
				A	
	(n L		EHE		(Ex)
Declaration of Conformity	Test Certifica	ites Ma	arine / Shipping		other
Miscellaneous	<u>Special Test Ce</u> ate	ertific-	Llovd's	And and a second second	Confirmation
EG-Konf.	ale		Régister	DNV-GL	
JL/CSA ratings					
yielded mechanical performance [hp] for	3-phase AC				
motor					

• at 460/480 V

— at standard circuit at 50 °C rated value	hp	300
• at 575/600 V	r	
— at standard circuit at 50 °C rated value	hp	400
contact rating of auxiliary contacts according to UL		B300 / R300
Further information		

-urther information

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4076-6BB45

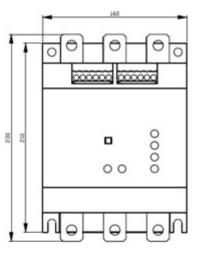
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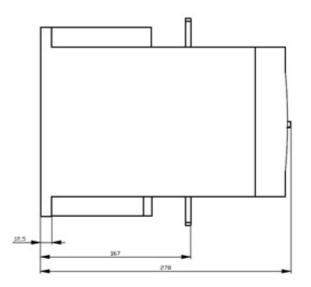
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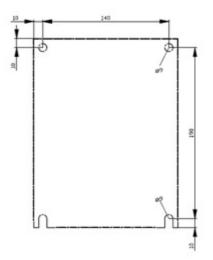
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

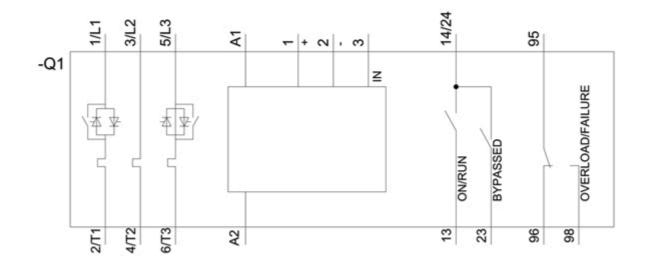
https://support.industry.siemens.com/cs/ww/en/ps/3RW4076-6BB45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4076-6BB45&lang=en









last modified:

12/15/2020 🖸