SIEMENS

Data sheet

3RW4458-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 970 A, 560 kW Inside-delta: 1680 A, 1000 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-6HA14<<

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 		Yes
external reset		Yes
 adjustable current limitation 		Yes
• inside-delta circuit		Yes
product component motor brake output		Yes
insulation voltage rated value	V	690
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	970
 at 50 °C rated value 	А	850
 at 60 °C rated value 	А	760
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 680
 at 50 °C rated value 	А	1 472
 at 60 °C rated value 	А	1 316
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	315 000
— at inside-delta circuit at 40 °C rated value	W	560 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	560 000
— at inside-delta circuit at 40 °C rated value	W	1 000 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	300

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
operating voltage at inside-delta circuit rated value	V	200 460
relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
relative positive tolerance of the operating voltage at inside-delta circuit	%	10
minimum load [%]	%	8
adjustable motor current for motor overload protection minimum rated value	A	194
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	VV	270
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		Display
Mechanical data		
width	mm	510
height	mm	640
depth	mm	290
fastening method	-	screw fixing
mounting position		with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
required spacing with side-by-side mounting		
• upwards	mm	100
at the side	mm	5
downwards	mm	75
wire length maximum	m	500
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		3
number of CO contacts for auxiliary contacts		1
type of connectable conductor cross-sections for DIN		
cable lug for main contacts		

finely stranded		E0 240 mm	2	
		50 240 mm 70 240 mm		
stranded type of connectable conductor cross-sections for		70 240 mm		
auxiliary contacts				
• solid		2x (0.5 2.5	mm²)	
 finely stranded with core end processing 		2x (0.5 1.5	mm²)	
type of connectable conductor cross-sections at AWG cables				
 for main contacts 		2/0 500 kcr	nil	
 for auxiliary contacts 		2x (20 14)		
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
 during transport acc. to IEC 60721 		2K2, 2C1, 2S	1, 2M2 (max. fall heigl	nt 0.3 m)
• during storage acc. to IEC 60721			asional condensation) ist not get inside the d	
• during operation acc. to IEC 60721			ation of ice, no conden and must not get into th	
ambient temperature				
 during operation 	°C	60		
during storage	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP00		
Certificates/ approvals				
General Product Approval			EMC	Declaration of Conformity
			A	~ ~
(SP) (CCC) (UL)		FHI		(E
			<u> </u>	
CSA CCC UL		6116	RCM	EG-Konf.
CSA CCC UL			RCM	EG-Konf.
CSA CCC UL			RCM	EG-Konf.
Test Certificates Marine / Shipping			RCM	EG-Konf.
Test Certificates Marine / Shipping			RCM	EG-Konf.
Test Certificates Marine / Shipping			RCM	EG-Konf.
······································		Llovd's Register	RCM	
Special Test Certific-			RCM	EG-Konf.
Special Test Certific- ate		Llovd's Kegister Liks	RCM	DNV-GL
Special Test Certific- ate		Llovd's Register urs	RCM	DNV-GL
Special Test Certific- ate		Hoyd's Register LRS	RCM	DNV-GL

Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V		
- at inside-delta circuit at 50 °C rated value	hp	550
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	350
— at inside-delta circuit at 50 °C rated value	hp	650
• at 460/480 V		

— at standard circuit at 50 °C rated value	hp	750
- at inside-delta circuit at 50 °C rated value	hp	1 300
contact rating of auxiliary contacts according to UL		B300 / R300

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=3RW4458-6BC44

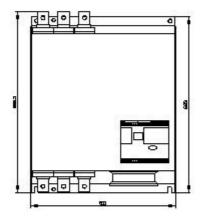
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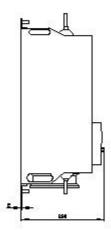
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4458-6BC44

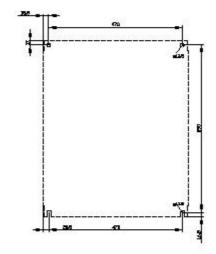
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

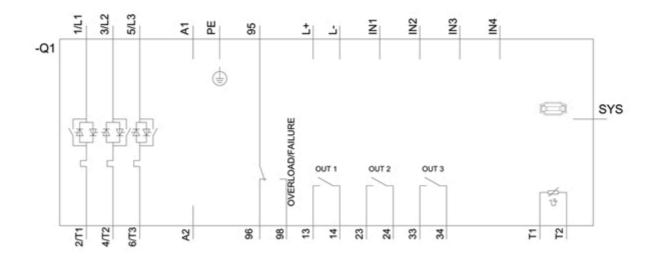
https://support.industry.siemens.com/cs/ww/en/ps/3RW4458-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4458-6BC44&lang=en









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