## SIEMENS

## Data sheet

## 3RW4458-2BC44



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 spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-2HA14<<

and wet have a groups		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
<ul> <li>external reset</li> </ul>		Yes
<ul> <li>adjustable current limitation</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	А	970
<ul> <li>at 50 °C rated value</li> </ul>	А	850
• at 60 °C rated value	А	760
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	1 680
<ul> <li>at 50 °C rated value</li> </ul>	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	hp	300
value		

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	W	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	%	-10
voltage frequency	- %	10
relative positive tolerance of the control supply 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 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
<ul> <li>for auxiliary and control circuit</li> </ul>		spring-loaded 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		50 240 mm²
stranded		70 240 mm <sup>2</sup>
+ oliuliuou		

type of connectable c	onductor cross-sectio	ons for				
auxiliary contacts						
<ul> <li>solid</li> </ul>				2x (0.25 1.		
	ith core end processing			2x (0.25 1.	5 mm²)	
type of connectable c cables	onductor cross-sectio	ons at AWG				
<ul> <li>for main contacts</li> </ul>	6			2/0 500 kcr	nil	
<ul> <li>for auxiliary containing</li> </ul>	acts			2x (24 16)		
Ambient conditions						
installation altitude at	t height above sea leve	əl	m	5 000		
environmental catego	ory					
<ul> <li>during transport a</li> </ul>	acc. to IEC 60721			2K2, 2C1, 2S	1, 2M2 (max. fall hei	ight 0.3 m)
<ul> <li>during storage ad</li> </ul>	cc. to IEC 60721				asional condensatio ist not get inside the	n), 1C2 (no salt mist), devices), 1M4
<ul> <li>during operation</li> </ul>	acc. to IEC 60721			· ·	ation of ice, no conde and must not get into	ensation), 3C3 (no salt the devices), 3M6
ambient temperature						
<ul> <li>during operation</li> </ul>			°C	60		
<ul> <li>during storage</li> </ul>			°C	-25 +80		
derating temperature			°C	40		
protection class IP on	the front acc. to IEC (	60529		IP00		
Certificates/ approvals						
General Product App	proval				EMC	Declaration of Conformity
	CCC	(ل س		EAC	RCM	C C EG-Konf.
Test Certificates	Marine / Shipping					
<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS		Lloyd's Register uis	PRS	DNV-GL DNV-GL DWGLCDRAW
other						

**Confirmation** 

ielded mechanical performance [hp] for 3-phase AC notor		
• 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		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	750
- at inside-delta circuit at 50 °C rated value	hp	1 300
ontact rating of auxiliary contacts according to UL		B300 / R300
rther information		

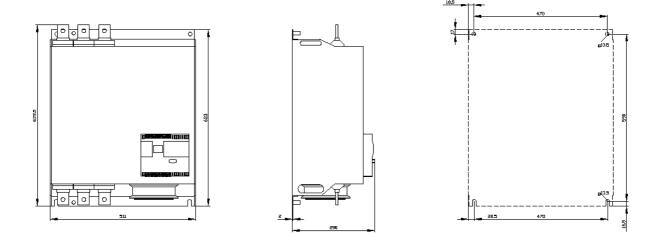
Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4458-2BC44

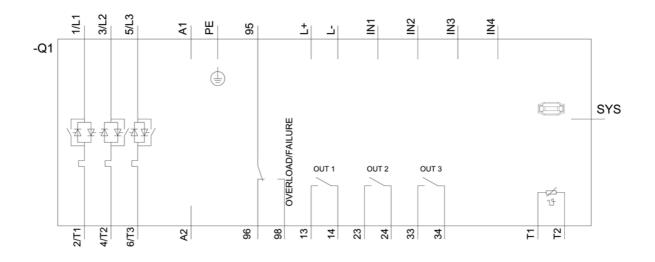
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4458-2BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4458-2BC44

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





last modified:

1/18/2021 🖸