SIEMENS

Data sheet

3RW4458-2BC36



SIRIUS soft starter Values at 575 V, 50 °C standard: 850 A, 950 hp Inside-delta: 1472 A, 1650 hp 400-690 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-2HA16<<

General technical data					
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 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			
• at 500 V					
- at standard circuit at 40 °C rated value	W	710 000			
— at inside-delta circuit at 40 °C rated value	W	1 200 000			
 at 690 V at standard circuit at 40 °C rated value 	W	1 000 000			
operating frequency rated value	Hz	50 60			

	-	40
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 690
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage atstandard circuit	%	10
operating voltage at inside-delta circuit rated value	V	400 600
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	А	194
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	270
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	%	-10
voltage frequency	-	
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
 at 50 Hz rated value 	V	115
at 60 Hz rated value	V	115
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		spring-loaded terminals
number of NC contacts for auxiliary contacts		
number of NO contacts for auxiliary contacts	-	3
		1
number of CO contacts for auxiliary contacts		
type of connectable conductor cross-sections for DIN cable lug for main contacts		50 - 240 mm ²
 finely stranded 		50 240 mm²

 stranded 				70 240 mm	2	
type of connectable auxiliary contacts	conductor cross-sect	ions for				
solid				2x (0.25 1.	5 mm²)	
	with core end processin	a		2x (0.25 1.8		
	conductor cross-sect			2X (0.20 1.)	5 mm y	
 for main contact 	ts			2/0 500 kcr	nil	
 for auxiliary con 	tacts			2x (24 16)		
mbient conditions						
	at height above sea le		m	5 000		
environmental categ	_			0 000		
-	t acc. to IEC 60721			242 201 25	1, 2M2 (max. fall heig	ubt 0.3 m)
 during transport during storage a 					asional condensation	
				1S2 (sand mu	ist not get inside the	devices), 1M4
	n acc. to IEC 60721				ation of ice, no conde ind must not get into	nsation), 3C3 (no salt the devices), 3M6
ambient temperature			0.5			
 during operation 	1		°C	60		
 during storage 			°C	-25 +80		
derating temperature	e		°C	40		
protection class IP o	on the front acc. to IEC	60529		IP00		
General Product Ap						Declaration of
	provai				EMC	Conformity
SP CAN		(U) u		EHC		
Test Certificates		Ψu		EAC	EMC RCM	Conformity
(SP) Em	CCC			EAC Lloyds Kegister Lis	EMC RCM	Conformity
Test Certificates	CCC Marine / Shipping			EAC Hovers Register Us	RCM	Conformity CEG-Konf.
Test Certificates Special Test Certificates ate	CCC Marine / Shipping	U REAU VERITAS		EFFC Lis	RCM	Conformity CC EC-Konf.
Test Certificates Special Test Certificates ate	CCC Marine / Shipping	U REAL VERITAS		EFFC Register us	RCM	Conformity CC EC-Konf.
Test Certificates Special Test Certificates ate	CCC Marine / Shipping	U U U U U U U U U U U U U U U U U U U		EAC Lovd's Lus	RCM	Conformity CCE EG-Konf.

• 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
• at 575/600 V		
 — at standard circuit at 50 °C rated value 	hp	950
- at inside-delta circuit at 50 °C rated value	hp	1 650
contact rating of auxiliary contacts according to UL		B300 / R300
Further 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=3RW4458-2BC36

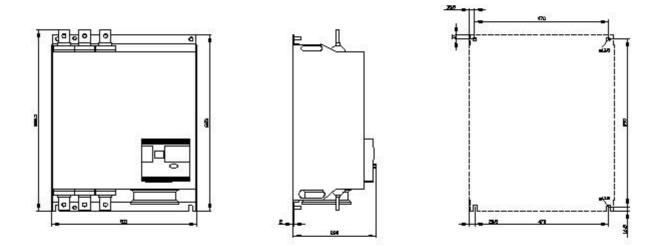
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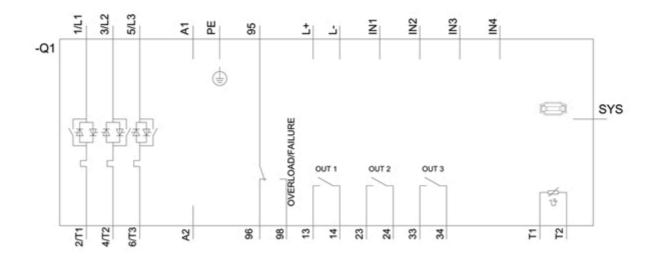
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4458-2BC36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4458-2BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4458-2BC36&lang=en





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