SIEMENS

Data sheet

3RW4073-6BB34



SIRIUS soft starter S12 205 A, 150 hp/460 V, 50 °C 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5073-6AB14<<

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 		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	230
• at 50 °C rated value	А	205
• at 60 °C rated value	А	180
yielded mechanical performance for 3-phase motors		
• at 230 V	1.3.47	75
— at standard circuit at 40 °C rated value	kW	75
• at 400 V	1.3.47	100
— at standard circuit at 40 °C rated value	kW	132
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	60
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
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	80

continuous operating current [% of le] at 40 °C	%	115			
power loss [W] at operational current at 40 °C during	W	90			
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	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		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 without core end processing		70 240 mm²			
• stranded		95 300 mm²			
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point					
finely stranded with core end processing		120 185 mm²			
• finely stranded without core end processing		120 185 mm²			
• 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 mm², max. 2x 185 mm²			
 finely stranded without core end processing 		min. 2x 50 mm², max. 2x 185 mm²			
• stranded		max. 2x 70 mm², max. 2x 240 mm²			
type of connectable conductor cross-sections for 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			
s doing the next old inping point					

a using both clamping points			min 2x 2/0 m	av av E00 komil		
using both clamping points type of connectable conductor cross		min. 2x 2/0, max. 2x 500 kcmil				
lug for main contacts	S-Sections for Dividule					
 finely stranded 			50 240 mm²			
• stranded			70 240 mm²			
type of connectable conductor cross contacts	s-sections for auxiliary					
• solid			2x (0.5 2.5 mm²)			
 finely stranded with core end pro 	cessing		2x (0.5 1.5 mm²)			
type of connectable conductor cross cables	s-sections for AWG					
 for main contacts 			2/0 500 kcmil			
 for auxiliary contacts 			2x (20 14)			
 for auxiliary contacts finely strand processing 	ded with core end		2x (20 16)			
Ambient conditions						
installation altitude at height above s	sea level	m	5 000			
environmental category						
 during transport according to IEC 	60721		2K2, 2C1, 2S1	, 2M2 (max. fall height	0.3 m)	
during storage according to IEC	60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
during operation according to IE	C 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperature						
 during operation 		°C	-25 +60			
 during storage 		°C	-40 +80			
derating temperature		°C	40			
protection class IP on the front acco		IP00; IP20 with cover				
touch protection on the front accord	ing to IEC 60529		finger-safe, for	vertical contact from the	he front with cover	
Certificates/ approvals		_			_	
General Product Approval					EMC	
)		(U) u	EHC	RCM	
Declaration of Con- formity Test Certific	ates Marine / Shipp	ing		other		
~ ~	Lloyds		and the second s			
Ce	Register		DNVGL			
EG-Konf.	LRS		Devolucionexe			
UL/CSA ratings						
yielded mechanical performance [hp] for 3-phase AC motor					
• at 220/230 V						
— at standard circuit at 50 °C rated value		hp	75			
• at 460/480 V						
— at standard circuit at 50 °C rated value		hp	150			
contact rating of auxiliary contacts a	ccording to UL		B300 / R300			
contact rating of auxiliary contacts a			D3007 K300			







