## **SIEMENS**

Data sheet 3RW40 73-6BB44

SIRIUS soft starter S12 230 A, 132 kW/400 V, 40  $^{\circ}$ C 200-460 V AC, 230 V AC Screw terminals



General technical data			
Product brand name		SIRIUS	
Product feature			
<ul> <li>integrated bypass contact system</li> </ul>		Yes	
<ul><li>Thyristors</li></ul>		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>		No	
External reset		Yes	
<ul> <li>Adjustable current limitation</li> </ul>		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		G	
according to IEC 204-2 acc. to IEC 750			

Product designation Operating current  at 40 °C rated value  at 60 °C rated value  A 230  A 180  Mechanical power output for three-phase motors  at 230 °C atted value  A 180  Mechanical power output for three-phase motors  at 230 °C atted value  A 180  Mechanical power output for three-phase motors  at 230 °C atted value  A 180  Mechanical power output for three-phase motors  at 230 °C atted value  at 400 °C atted value  at 400 °C rated value  A 132 000  To 30 °C rated value  A 132 000  To 30 °C rated value  A 132 000  A 100  Coperating frequency rated value  A 180  A 180  Mechanical performance (pt) for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  A 132 000  A 132 000  A 132 000  A 100  Coperating frequency rated value  A 180  A 10	Power Electronics		
at 50 °C rated value at 50 °C rated value A 205 at 60 °C rated value A 180  Mechanical power output for three-phase motors at 230 V — at standard circuit at 40 °C rated value A 180  * at 400 V — at standard circuit at 40 °C rated value * at 400 V — at standard circuit at 40 °C rated value * at 400 V — at standard circuit at 40 °C rated value  * at 200/208 V at standard circuit at 50 °C rated value Operating frequency rated value  ### 50 60  Relative negative tolerance of the operating frequency Relative negative tolerance of the operating frequency Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the control supply voltage frequency 1 rated value  **Operating current (% of le) at 40 °C % **U 90  **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operating current (% of le) at 40 °C % **Operati	Product designation		Soft starter
at 50 °C rated value at 60 °C rated value A 180  Mechanical power output for three-phase motors at 230 V — at standard circuit at 40 °C rated value at 400 V — at standard circuit at 40 °C rated value Vielede mechanical performance [hp] for three-phase AC motor at 20/208 V at standard circuit at 50 °C rated value Vielede mechanical performance [hp] for three-phase AC motor at 20/208 V at standard circuit at 50 °C rated value Vielede mechanical performance [hp] for three-phase AC motor at 20/208 V at standard circuit at 50 °C rated value Vielede mechanical performance of the operating frequency Vielede mechanical performance of the operating frequency Vielede mechanical performance of the operating frequency Vielede vieled value Vielede mechanical performance of the operating frequency Vielede positive tolerance of the operating frequency Vielede vieled value Vieled value Vieled value Vieled value Vieled value Vieled val	Operating current		
at 60 °C rated value  Mechanical power output for three-phase motors  at 230 V  — at standard circuit at 40 °C rated value  at 400 V  — at standard circuit at 40 °C rated value  at 400 V  — at standard circuit at 40 °C rated value  VV 132 000  Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  Operating frequency rated value  Relative negative tolerance of the operating frequency  Operating voltage at standard circuit rated value  V 200 460  Power loss pitive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the control supply voltage  Control supply voltage frequency 1 rated value  at 40 °C during operation typical  Control supply voltage frequency 2 rated value  at 60 °C operating current for motor overlous upply voltage frequency  Relative positive tolerance of the control supply voltage frequency  at 80 °C operating current for control supply voltage frequency  at 80 °C operating current for motor overlous upply voltage frequency  at 80 °C operating current for control supply voltage frequency  at 80 °C operating current for control supply voltage frequency  at 80 °C operating current for control supply voltage frequency  at 80 °C operating current for control supply voltage frequency  at 80 °C operating current for for control supply voltage frequency  at 80 °C operating current for for control supply voltage frequency  at 80 °C operating current for for control supply voltage frequency  at 80	• at 40 °C rated value	Α	230
Mechanical power output for three-phase motors  • at 230 V — at standard circuit at 40 °C rated value • at 400 V — at standard circuit at 40 °C rated value • at 400 V — at standard circuit at 40 °C rated value • at 400 V — at standard circuit at 40 °C rated value  • at 400 V — at standard circuit at 40 °C rated value  V  132 000  Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  Operating frequency rated value  Relative negative tolerance of the operating frequency  Relative positive tolerance of the operating frequency  Operating voltage at standard circuit rated value  Relative negative tolerance of the operating voltage at standard circuit  Relative negative tolerance of the operating voltage at standard circuit  Minimum load [%]  A 80  Control supply voltage frequency 1 rated value  Control supply voltage frequency 1 rated value  Control supply voltage frequency 2 rated value  Hz 60  Control supply voltage frequency 2 rated value  Hz 60  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply  voltage frequency  Relative positive tolerance of the control supply  voltage frequency  Relative positive tolerance of the control supply  voltage frequency	• at 50 °C rated value	Α	205
at standard circuit at 40 °C rated value  at standard circuit at 40 °C rated value  at standard circuit at 40 °C rated value  Tielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  Operating frequency rated value  Relative negative tolerance of the operating frequency  Relative positive tolerance of the operating frequency  Operating voltage at standard circuit rated value  V 200 460  Relative negative tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C  Operating voltage of the control supply voltage  Control supply voltage frequency 1 rated value  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  at 50 Hz rated value  at 60 Hz rated value  v 230  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply	• at 60 °C rated value	Α	180
- at standard circuit at 40 °C rated value  • at 400 V  — at standard circuit at 40 °C rated value  V 132 000  Yielded mechanical performance [hp] for three-phase AC motor at 200208 V at standard circuit at 50 °C rated value  Operating frequency rated value  Relative negative tolerance of the operating frequency  Relative positive tolerance of the operating frequency  Relative positive tolerance of the operating frequency  Relative positive tolerance of the operating voltage at standard circuit rated value  V 200 460  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C % 115  Power loss [W] at operating current at 40 °C during operation typical  Control supply voltage frequency 2 rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage frequency 2 rated value  • at 50 Hz rated value  • at 50 Hz rated value  • at 60 Hz rated value	Mechanical power output for three-phase motors		
* at 400 V — at standard circuit at 40 °C rated value  Yleided mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  Operating frequency rated value  Relative negative tolerance of the operating frequency Relative positive tolerance of the operating frequency Relative negative tolerance of the operating voltage at standard circuit rated value  V 200 460  Relative negative tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current (% of le) at 40 °C  Power loss [W] at operating current at 40 °C during operation typical  Control supply voltage frequency 1 rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Control supply voltage frequency 2 rated value  Relative nogative tolerance of the control supply voltage frequency  Control supply voltage frequency 2 rated value  **a to Hz rated value	● at 230 V		
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Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  Operating frequency rated value  Relative negative tolerance of the operating frequency  Relative positive tolerance of the operating frequency  Relative negative tolerance of the operating frequency  Operating voltage at standard circuit rated value  V 200 460  Relative negative tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C % 115  Power loss [W] at operating current at 40 °C during operation typical  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  Control supply voltage frequency 2 rated value Hz 60  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  Relative negative tolerance of the control supply voltage at 60 Hz rated value  Relative negative tolerance of the control supply voltage at 60 Hz rated value  • at 60 Hz rated value  Relative positive tolerance of the control supply voltage at 60 Hz rated value  • at 60 Hz rated value	● at 400 V		
AC motor at 200/208 V at standard circuit at 50 °C rated value  Operating frequency rated value  Relative negative tolerance of the operating frequency  Relative positive tolerance of the operating frequency  Relative positive tolerance of the operating frequency  Operating voltage at standard circuit rated value  Relative negative tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C %  115  Power loss [W] at operating current at 40 °C during operation typical  Control supply voltage frequency 1 rated value  Control supply voltage frequency 2 rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  • at 60 Hz rated value  • at 60 Hz rated value  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz	— at standard circuit at 40 °C rated value	W	132 000
rated value  Operating frequency rated value Relative negative tolerance of the operating frequency Relative positive tolerance of the operating frequency Relative positive tolerance of the operating frequency Relative negative tolerance of the operating voltage at standard circuit rated value V 200 460  Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value Continuous operating current [% of le] at 40 °C W 90  Power loss [W] at operating current at 40 °C during operation typical  Control electronics  Type of voltage of the control supply voltage 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 Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 at AC  • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value Relative negative tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz Relative positive tolerance of the control supply voltage at AC at 50 Hz	Yielded mechanical performance [hp] for three-phase	hp	60
Departing frequency rated value   Hz   50 60			
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Relative negative tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C % 115  Power loss [W] at operating current at 40 °C during operation typical  Control electronics  Type of voltage of the control supply voltage  Control supply voltage frequency 1 rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage frequency 2 rated value  Relative positive tolerance of the control supply voltage frequency  Control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz	Relative positive tolerance of the operating frequency	%	10
at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load [%]  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C  %  115  Power loss [W] at operating current at 40 °C during operation typical  Control electronics  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  Relative positive tolerance of the control supply voltage frequency  Control supply voltage frequency  10  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  V  230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz	Operating voltage at standard circuit rated value	V	200 460
standard circuit  Minimum load [%] % 20  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C % 115  Power loss [W] at operating current at 40 °C during operation typical  Control electronics  Type of voltage of the control supply voltage  Control supply voltage frequency 1 rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage frequency  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply		%	-15
Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C  %  115  Power loss [W] at operating current at 40 °C during operation typical  W  90  Control electronics  Type of voltage of the control supply voltage  AC  AC  AC  AC  AC  AC  AC  AC  AC  A		%	10
Adjustable motor current for motor overload protection minimum rated value  Continuous operating current [% of le] at 40 °C % 115  Power loss [W] at operating current at 40 °C during operation typical  Control electronics  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 Protection (Supply voltage (Supply v	Minimum load [%]	%	20
Continuous operating current [% of le] at 40 °C  %  115  Power loss [W] at operating current at 40 °C during operation typical  W  90  Control electronics  Type of voltage of the control supply voltage  AC  AC  AC  AC  AC  AC  AC  AC  AC  A	Adjustable motor current for motor overload	А	80
Power loss [W] at operating current at 40 °C during operation typical  Control electronics  Type of voltage of the control supply voltage  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  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply woltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz	•	%	115
Control electronics  Type of voltage of the control supply voltage 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 Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply % 10			
Type of voltage of the control supply voltage  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  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply % 10		VV	30
Type of voltage of the control supply voltage  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  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply % 10	Control electronics		
Control supply voltage frequency 2 rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply  V 10			AC
Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply  V 10	Control supply voltage frequency 1 rated value	Hz	50
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply  Relative positive tolerance of the control supply  V 10	Control supply voltage frequency 2 rated value	Hz	60
Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply  Relative positive tolerance of the control supply  N 10		%	-10
Control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  V 230  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply  Relative positive tolerance of the control supply  N 10	Relative positive tolerance of the control supply	%	10
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>V</li> <li>Relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>Relative positive tolerance of the control supply</li> <li>M</li> <li>10</li> </ul>			
at 60 Hz rated value  Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply  Relative positive tolerance of the control supply  V 230  -15  10		V	230
Relative negative tolerance of the control supply voltage at AC at 50 Hz  Relative positive tolerance of the control supply  % 10			
Relative positive tolerance of the control supply % 10	Relative negative tolerance of the control supply		
	Relative positive tolerance of the control supply	%	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	
(mounting type)		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	
<ul> <li>for auxiliary and control current circuit</li> </ul>		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			
<ul><li>finely stranded with core end processing</li></ul>		70 240 mm²	
<ul> <li>finely stranded without core end processing</li> </ul>		70 240 mm²	
• stranded		95 300 mm²	
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point			
<ul> <li>finely stranded with core end processing</li> </ul>		120 185 mm²	
<ul> <li>finely stranded without core end processing</li> </ul>		120 185 mm²	
• stranded		120 240 mm²	
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points			

min. 2x 50 mm², max. 2x 185 mm²
min. 2x 50 mm², max. 2x 185 mm²
max. 2x 70 mm², max. 2x 240 mm²
250 500 kcmil
3/0 600 kcmil
min. 2x 2/0, max. 2x 500 kcmil
50 240 mm²
70 240 mm²
0.405053
2x (0.5 2.5 mm²)
2x (0.5 1.5 mm²)
2/0 500 kcmil
2x (20 14)
, ,
2x (20 16)

Ambient conditions			
Installation altitude at height above sea level	m	5 000	
Environmental category			
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
<ul> <li>during operation acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
Ambient temperature			
<ul> <li>during operation</li> </ul>	°C	-25 <b>+</b> 60	
<ul><li>during storage</li></ul>	°C	-40 <b>+</b> 80	
(derating temperature)	°C	40	
Protection class IP		IP00	

## Certificates/approvals

## **General Product Approval**

**EMC** 

For use in hazardous locations













Declaration of	Conformity	Test Certific- ates	Shipping Ap- proval	other
$\epsilon$	Miscellaneous	Special Test Certificate	Lloyd's Register	Confirmation
EG-Konf.			LRS	

UL/CSA ratings				
Yielded mechanical performance [hp] for three-phase				
AC motor				
● at 220/230 V				
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	75		
● at 460/480 V				
— at standard circuit at 50 °C rated value	hp	150		
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,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4073-6BB44

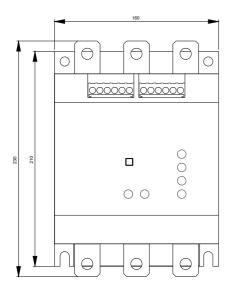
Cax online generator

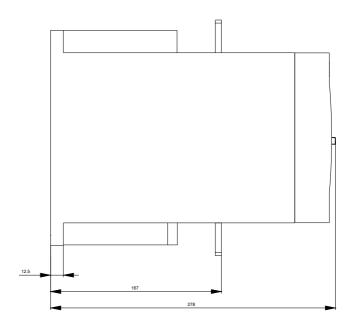
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-6BB44

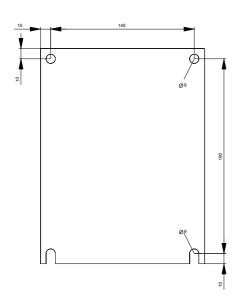
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

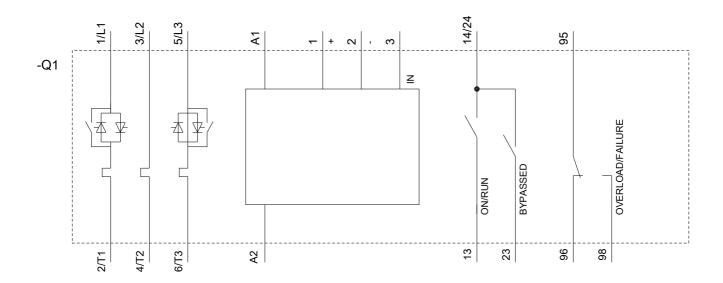
https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4073-6BB44&lang=en









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