## SIEMENS

## Data sheet

## 3RW4424-1BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 47 A, 22 kW Inside-delta: 81 A, 45 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5524-1HA14<<

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
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
<ul> <li>inside-delta circuit</li> </ul>		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	47
<ul> <li>at 50 °C rated value</li> </ul>	А	42
<ul> <li>at 60 °C rated value</li> </ul>	А	37
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	81
<ul> <li>at 50 °C rated value</li> </ul>	А	73
<ul> <li>at 60 °C rated value</li> </ul>	А	64
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	11 000
— at inside-delta circuit at 40 °C rated value	W	22 000
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	22 000
— at inside-delta circuit at 40 °C rated value	W	45 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated	hp	10

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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	9
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	32
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	170
height	mm	192
depth	mm	270
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		
<ul> <li>for main current circuit</li> </ul>		box terminal
<ul> <li>for auxiliary and control circuit</li> </ul>	-	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 main contacts for box terminal using the front		

clamping point       • solid         • finely stranded with core end processing       • finely stranded without core end processing         • stranded       type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point         • solid       • finely stranded with core end processing         • finely stranded with core end processing       • stranded         • type of connectable conductor cross-sections for main contacts for box terminal using both clamping points       • solid         • finely stranded with core end processing       • stranded         • stranded       • type of connectable conductor cross-sections for main contacts for box terminal         • solid       • finely stranded with core end processing         • stranded       • stranded         • using the back clamping point       • using the front clamping point         • using the front clamping point       • using the front clamping points         • using both clamping points       • solid         • finely stranded with core end processing       • for auxiliary contacts         • solid       • finely stranded with core end processing         • type of connectable conductor cross-sections at AWG cables       • for auxiliary contacts         • solid       • finely stranded with core end processing       • for auxiliary contacts         • for auxiliary contacts       •	2.5 16 mm <sup>2</sup> 2.5 35 mm <sup>2</sup> 4 50 mm <sup>2</sup> 4 70 mm <sup>2</sup> 2,5 16 mm <sup>2</sup> 2,5 50 mm <sup>2</sup> 10 50 mm <sup>2</sup> 10 70 mm <sup>2</sup> 2x (2.5 16 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0 10 2/0
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finely stranded without core end processing     stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     solid     finely stranded with core end processing     stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     solid     finely stranded with core end processing     intely stranded with core end processing     stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     solid     finely stranded with core end processing     intely stranded with core end processing     stranded  type of connectable conductor cross-sections at AWG cables for main contacts for box terminal     using the font clamping point     using both clamping point     using the front clamping point     using the fort clamping point     using both clamping point     using the fort clamping point     using both clamping point     using both clamping point     using both clamping point     using the fort clamping point     using the back clamping point     using the fort clamping point     o	4 50 mm <sup>2</sup> 4 70 mm <sup>2</sup> 2,5 16 mm <sup>2</sup> 2.5 50 mm <sup>2</sup> 10 50 mm <sup>2</sup> 10 70 mm <sup>2</sup> 2x (2.5 16 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0
• stranded         type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point       • solid         • finely stranded with core end processing       • stranded         • stranded       • type of connectable conductor cross-sections for main contacts for box terminal using both clamping points         • solid       • finely stranded with core end processing         • finely stranded with core end processing       • finely stranded without core end processing         • finely stranded without core end processing       • stranded         • using the back clamping point       • using the back clamping point         • using the back clamping point       • using the front clamping point         • using the front clamping point       • using both clamping point         • using both clamping points       • type of connectable conductor cross-sections for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts         • for auxiliary contacts finely stranded with core end processing       m         Ambient conditions       m         installation altitude at height above sea level       m         environmental category       • during storage acc. to IEC 60721       m         • during operation acc. to IEC 60721       °C       °C <t< td=""><td>4 70 mm<sup>2</sup> 2,5 16 mm<sup>2</sup> 2.5 50 mm<sup>2</sup> 10 50 mm<sup>2</sup> 10 70 mm<sup>2</sup> 2x (2.5 16 mm<sup>2</sup>) 2x (2.5 35 mm<sup>2</sup>) 2x (4 35 mm<sup>2</sup>) 2x (4 50 mm<sup>2</sup>) 10 2/0</td></t<>	4 70 mm <sup>2</sup> 2,5 16 mm <sup>2</sup> 2.5 50 mm <sup>2</sup> 10 50 mm <sup>2</sup> 10 70 mm <sup>2</sup> 2x (2.5 16 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0
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main contacts for box terminal using the back clamping point       • solid         • solid       • finely stranded with core end processing         • stranded       • type of connectable conductor cross-sections for main contacts for box terminal using both clamping points         • solid       • finely stranded with core end processing         • finely stranded with core end processing       • sinely stranded without core end processing         • solid       • finely stranded without core end processing         • stranded       • type of connectable conductor cross-sections at AWG cables for main contacts for box terminal         • using the back clamping point       • using the front clamping point         • using both clamping points       • using the conductor cross-sections for auxiliary contacts         • solid       • finely stranded with core end processing         • type of connectable conductor cross-sections for auxiliary contacts       • solid         • finely stranded with core end processing       • for auxiliary contacts         • solid       • for auxiliary contacts       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts finely stranded with core end processing       m         Ambient conditions       m       m         environmental category       • during storage acc. to IEC 60721       m         • during operation acc. to IEC 60721	2.5 50 mm <sup>2</sup> 10 50 mm <sup>2</sup> 10 70 mm <sup>2</sup> 2x (2.5 16 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections at AWG cables for main contacts for box terminal</li> <li>using the back clamping point</li> <li>using the back clamping point</li> <li>using the front clamping point</li> <li>using both clamping point</li> <li>using both clamping points</li> <li>type of connectable conductor cross-sections at AWG cables</li> <li>of auxiliary contacts</li> <li>for auxiliary contacts finely stranded with core end processing</li> <li>tor auxiliary contacts finely stranded with core end processing</li> <li>tor auxiliary contacts finely stranded with core end processing</li> <li>tor auxiliary contacts finely stranded with core end processing</li> <li>during transport acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during operation acc. to IEC 60721</li> <li>during storage</li> <li>"C"</li> </ul>	2.5 50 mm <sup>2</sup> 10 50 mm <sup>2</sup> 10 70 mm <sup>2</sup> 2x (2.5 16 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0
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• stranded       type of connectable conductor cross-sections for main contacts for box terminal using both clamping points         • solid       • finely stranded with core end processing         • finely stranded without core end processing       • stranded         type of connectable conductor cross-sections at AWG cables for main contacts for box terminal       • using the back clamping point         • using the back clamping point       • using both clamping point         • using both clamping points       • solid         • finely stranded with core end processing       • solid         • solid       • finely stranded with core end processing         • solid       • finely stranded with core end processing         • solid       • finely stranded with core end processing         • solid       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts finely stranded with core end processing         Ambient conditions       m         installation altitude at height above sea level       m         environmental category       • during storage acc. to IEC 60721       m         • during operation acc. to IEC 60721       • during operation       °C         • during operation       °C       m       °C         • during storage       <	10 70 mm <sup>2</sup> 2x (2.5 16 mm <sup>2</sup> ) 2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points       Image: Solid         • solid       • finely stranded with core end processing         • finely stranded without core end processing       • stranded         type of connectable conductor cross-sections at AWG cables for main contacts for box terminal       Image: Solid         • using the back clamping point       • using the front clamping point         • using both clamping points       Image: Solid         • solid       • finely stranded with core end processing         • solid       • finely stranded with core end processing         • type of connectable conductor cross-sections at AWG cables       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts finely stranded with core end processing         Ambient conditions       m         environmental category       • during transport acc. to IEC 60721         • during operation acc. to IEC 60721       • during operation acc. to IEC 60721         • during operation acc. to IEC 60721       • during operation         • during operation       °C         • during storage       °C	2x (2.5 16 mm²) 2x (2.5 35 mm²) 2x (4 35 mm²) 2x (4 50 mm²) 10 2/0
main contacts for box terminal using both clamping points       solid         • solid       • finely stranded with core end processing         • finely stranded without core end processing       • stranded         type of connectable conductor cross-sections at AWG cables for main contacts for box terminal       • using the back clamping point         • using the back clamping point       • using both clamping points         • using both clamping points       • type of connectable conductor cross-sections for auxiliary contacts         • solid       • finely stranded with core end processing         type of connectable conductor cross-sections at AWG cables       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts finely stranded with core end processing         Ambient conditions       m         environmental category       • during transport acc. to IEC 60721         • during operation acc. to IEC 60721       • during operation acc. to IEC 60721         • during operation acc. to IEC 60721       • during operation         • during operation       °C         • during storage       °C <t< td=""><td>2x (2.5 35 mm<sup>2</sup>) 2x (4 35 mm<sup>2</sup>) 2x (4 50 mm<sup>2</sup>) 10 2/0</td></t<>	2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0
<ul> <li>finely stranded with core end processing         <ul> <li>finely stranded without core end processing             <ul></ul></li></ul></li></ul>	2x (2.5 35 mm <sup>2</sup> ) 2x (4 35 mm <sup>2</sup> ) 2x (4 50 mm <sup>2</sup> ) 10 2/0
finely stranded without core end processing     stranded  type of connectable conductor cross-sections at AWG cables for main contacts for box terminal     using the back clamping point     using the front clamping point     using both clamping points  type of connectable conductor cross-sections for auxiliary contacts     solid     finely stranded with core end processing  type of connectable conductor cross-sections at AWG cables     of r auxiliary contacts     for auxiliary contacts finely stranded with core end processing  Ambient conditions  installation altitude at height above sea level     m environmental category     oduring transport acc. to IEC 60721     during operation acc. to IEC 60721     oduring storage     oduring storage     o'C protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	2x (4 35 mm²) 2x (4 50 mm²) 10 2/0
• stranded       type of connectable conductor cross-sections at AWG cables for main contacts for box terminal         • using the back clamping point       • using the front clamping point         • using both clamping points       type of connectable conductor cross-sections for auxiliary contacts         • solid       • finely stranded with core end processing         type of connectable conductor cross-sections at AWG cables       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts         • for auxiliary contacts       • for auxiliary contacts finely stranded with core end processing         Ambient conditions       m         environmental category       • during transport acc. to IEC 60721         • during operation acc. to IEC 60721       • during operation acc. to IEC 60721         • during operation acc. to IEC 60721       • C         • during storage       °C         • during operation       °C         • during storage       °C         • during storage       °C         protection class IP on the front acc. to IEC	2x (4 50 mm²) 10 2/0
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processing       m         Ambient conditions       m         installation altitude at height above sea level       m         environmental category       during transport acc. to IEC 60721         e during storage acc. to IEC 60721       -         e during operation acc. to IEC 60721       -         ambient temperature       °C         e during storage       °C         derating temperature       °C         protection class IP on the front acc. to IEC 60529       -         touch protection on the front acc. to IEC 60529       -         Certificates/ approvals       -	2x (20 14)
installation altitude at height above sea level       m         environmental category       during transport acc. to IEC 60721         • during storage acc. to IEC 60721       •         • during operation acc. to IEC 60721       •         ambient temperature       •         • during storage       °C         • during storage       °C         • during storage       °C         • during storage       °C         • during temperature       °C         • during temperature       °C         protection class IP on the front acc. to IEC 60529       •         touch protection on the front acc. to IEC 60529       •	2x (20 16)
environmental category <ul> <li>during transport acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during operation acc. to IEC 60721</li> </ul> <ul> <li>during operation acc. to IEC 60721</li> <li>during operation acc. to IEC 60721</li> </ul> <sup>o</sup> C <ul> <li>during operation</li> <li>c</li> <li>during storage</li> <li>°C</li> </ul> <sup>o</sup> C <ul> <li>feature</li> <li>during storage</li> <li>°C</li> <li>derating temperature</li> <li>°C</li> </ul> <sup>o</sup> C <ul> <li>c</li> <li>c</li> <li>c</li> <li>c</li> <li>c</li> <li>c</li> <li>c</li> </ul> <ul> <li>c</li> <li>c</li> <li>c</li> <li>c</li> <li>c</li> <li>d</li> <lid< li=""> <lid< li=""> <li>d</li> <li< td=""><td></td></li<></lid<></lid<></ul>	
<ul> <li>during transport acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during operation acc. to IEC 60721</li> <li>ambient temperature         <ul> <li>during operation</li> <li>c</li> <li>c</li> </ul> </li> <li>ambient temperature         <ul> <li>during storage</li> <li>c</li> <li>c</li> </ul> </li> <li>derating temperature         <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	5 000
<ul> <li>during storage acc. to IEC 60721</li> <li>during operation acc. to IEC 60721</li> <li>ambient temperature         <ul> <li>during operation</li> <li>during storage</li> <li>°C</li> </ul> </li> <li>derating temperature         <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	
e during operation acc. to IEC 60721      ambient temperature     e during operation     e during storage         C         derating temperature         protection class IP on the front acc. to IEC 60529         touch protection on the front acc. to IEC 60529 Certificates/ approvals	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
ambient temperature       °C         • during operation       °C         • during storage       °C         derating temperature       °C         protection class IP on the front acc. to IEC 60529       °C         touch protection on the front acc. to IEC 60529       °C         Certificates/ approvals       °C	
• during operation       °C         • during storage       °C         derating temperature       °C         protection class IP on the front acc. to IEC 60529          touch protection on the front acc. to IEC 60529          Certificates/ approvals	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
• during storage     • during storage     • during storage     • c      derating temperature     • C      protection class IP on the front acc. to IEC 60529     touch protection on the front acc. to IEC 60529 Certificates/ approvals	
derating temperature       °C         protection class IP on the front acc. to IEC 60529          touch protection on the front acc. to IEC 60529          Certificates/ approvals	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt
touch protection on the front acc. to IEC 60529 Certificates/ approvals	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Certificates/ approvals	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60
	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80
General Product Approval	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40
	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP20
	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP20
	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP20 finger-safe, for vertical contact from the front EMC Declaration of
	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP20 finger-safe, for vertical contact from the front EMC Declaration of
Test Certificates Marine / Shipping	1S2 (sand must not get inside the devices), 1M4         3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         60         -25 +80         40         IP20         finger-safe, for vertical contact from the front         Declaration of Conformity         EMC         Declaration of Conformity

Type Test Certific-	Spe
ates/Test Report	

Special Test Certificate









Marine / Shipping



Confirmation

other

yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V		
— at inside-delta circuit at 50 °C rated value	hp	20
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	15
— at inside-delta circuit at 50 °C rated value	hp	25
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	25
- at inside-delta circuit at 50 °C rated value	hp	50
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=3RW4424-1BC44

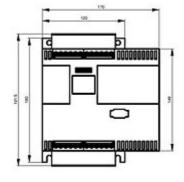
Cax online generator

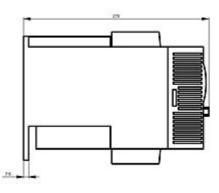
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4424-1BC44

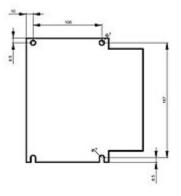
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

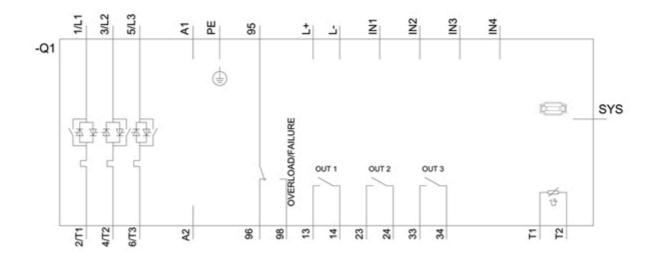
https://support.industry.siemens.com/cs/ww/en/ps/3RW4424-1BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4424-1BC44&lang=en</u>









last modified:

12/15/2020 🖸