



CONTACTOR, AC-3 18.5 KW/400 V, AC 24 V,  
50 HZ, 3-POLE, SIZE S2, SCREW CONNECTION

### General details:

<b>product brand name</b>		SIRIUS
<b>product designation</b>		power contactor
<b>Size of the contactor</b>		S2
<b>Protection class IP / on the front</b>		IP20
<b>Degree of pollution</b>		3
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature / during operating</b>	°C	-25 ... +60
<b>Active power loss / per conductor / typical</b>	W	2.6
<b>Item designation</b>		
<ul style="list-style-type: none"> <li>• according to DIN EN 61346-2</li> <li>• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		Q K
<b>Mechanical operating cycles as operating time</b>		
<ul style="list-style-type: none"> <li>• of the contactor / typical</li> <li>• of the contactor with added auxiliary switch block / typical</li> <li>• of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		10,000,000 10,000,000 5,000,000

### Main circuit:

<b>Number of poles / for main current circuit</b>		3
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<b>Number of NC contacts / for main contacts</b>		0
<b>Number of NO contacts / for main contacts</b>		3
<b>Operating current / at AC-1 / at 400 V / at 40 °C ambient temperature / rated value</b>	A	60
<b>Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value</b>	A	55
<b>Operating current</b>		
• at AC-3 / at 400 V / rated value	A	40
• with 1 current path		
• at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	4.5
• at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	2.5
• with 2 current paths in series		
• at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• with 3 current paths in series		
• at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
• at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
<b>Service power</b>		
• at AC-1 / at 400 V / rated value	kW	38
• at AC-2 / at 400 V / rated value	kW	18.5
• at AC-3		
• at 400 V / rated value	kW	18.5
• at 500 V / rated value	kW	22
• at 690 V / rated value	kW	22
<b>Control circuit:</b>		
<b>Design of activation</b>		conventional
<b>Type of voltage / of the controlled supply voltage</b>		AC
<b>Control supply voltage frequency</b>		

• 1 / rated value	Hz	50
<b>Control supply voltage / 1</b>		
• at 50 Hz / for AC		
• rated value	V	24

#### Auxiliary circuit:

<b>Contact reliability / of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)
<b>Number of NC contacts / for auxiliary contacts</b>		
• instantaneous switching		0
• lagging switching		0
<b>Number of NO contacts / for auxiliary contacts</b>		
• instantaneous switching		0
• leading switching		0
<b>Operating current / of the auxiliary contacts</b>		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	A	0.3

#### Short-circuit:

<b>Design of the fuse link</b>		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		
• with type of assignment 1 / required		fuse gL/gG: 125 A
• at type of coordination 2 / required		fuse gL/gG: 63 A

#### Installation/mounting/dimensions:




<b>Type of mounting</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
<b>series installation</b>		Yes
<b>Width</b>	mm	55
<b>Height</b>	mm	112

Depth	mm	115
Distance, to be maintained, to earthed part / sideways	mm	6

**Connection type:**

<b>Design of the electrical connection</b>		
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>		screw-type terminals screw-type terminals

**Certificates/approvals:**

<b>General Product Approval</b>	<b>Functional Safety / Safety of Machinery</b>
 CQC  CSA <a href="#">KETI</a> <a href="#">ROSTEST</a>  UL	<a href="#">SUVA</a>

**Test Certificates**

[Manufacturer](#)

**Shipping Approval**

 ABS  BUREAU VERITAS  DNV  GL  LRS  RINA
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**Shipping Approval other**

 RMRS <a href="#">Manufacturer</a> <a href="#">other</a>
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**Further information:**

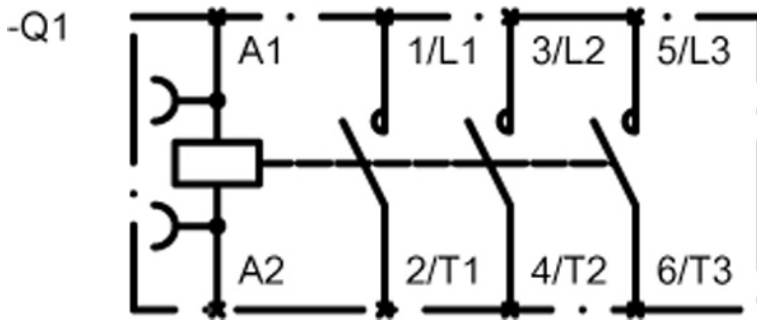
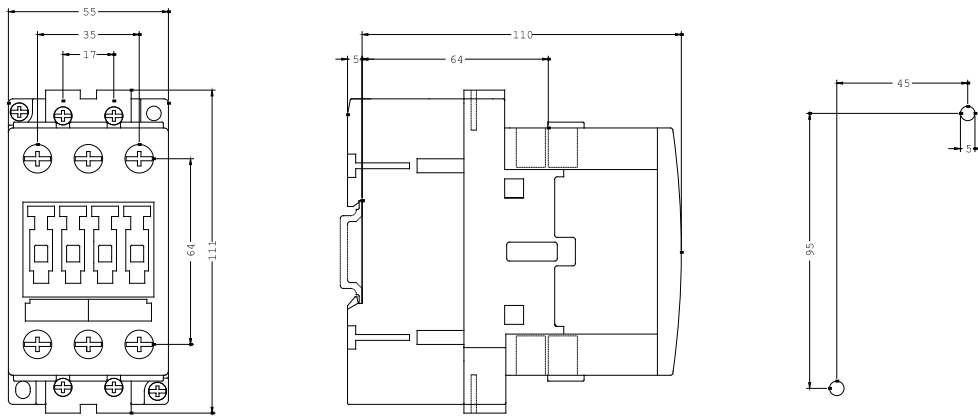
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last change:

Feb 10, 2012