



VAC. CONTACTOR,  
110KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 380-  
420V AUXILIARY CONTACTS 2NO+2NC 3-POLE,  
SIZE S10 BAR CONNECTIONS CONVENT. OPERATING  
MECHANISM

### General details:

Product brand name		SIRIUS
product designation		power contactor
Size of the contactor		S10
Protection class IP / on the front		IP00
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature / during operating	°C	-25 ... 60
Active power loss / per conductor / typical	W	9
Item designation		
<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
Mechanical operating cycles as operating time		
<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:

Number of poles / for main current circuit		3
--	--	---

<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	330
<b>Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value</b>	A	300
<b>Operating current</b> • at AC-3 / at 400 V / rated value	A	225
<b>Service power</b> • at AC-1 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value	kW kW  kW kW kW	197 128  110 160 223

Control circuit:		
<b>Design of activation</b>		conventional
<b>Design of the surge suppressor</b>		with varistor
<b>Type of voltage / of the controlled supply voltage</b>		AC/DC
<b>Control supply voltage frequency</b> • 1 / rated value • 2 / rated value	Hz Hz	40 60
<b>Control supply voltage / 1</b> • for DC • initial rated value • final rated value • at 50 Hz / for AC • initial rated value • final rated value • at 60 Hz / for AC • initial rated value • final rated value	V V  V V  V V	380 420  380 420  380 420

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 • lagging switching		2 0
<b>Number of NO contacts / for auxiliary contacts</b> • instantaneous switching		2

• 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:

##### Design of the fuse link

- for short-circuit protection of the auxiliary switch / required
- for short-circuit protection of the main circuit
  - with type of assignment 1 / required
  - at type of coordination 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 500 A

fuse gL/gG: 500 A

#### Installation/mounting/dimensions:

<b>Type of mounting</b>		screw fixing
<b>series installation</b>		Yes
<b>Width</b>	mm	145
<b>Height</b>	mm	210
<b>Depth</b>	mm	206
<b>Distance, to be maintained, to earthed part / sideways</b>	mm	10

#### Connection type:

##### Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

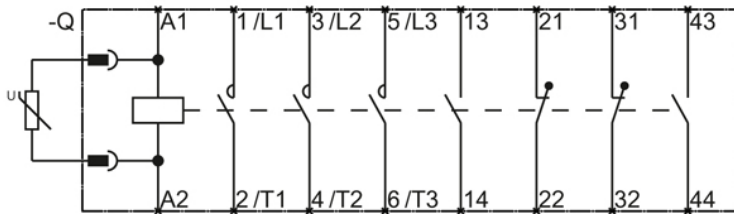
screw-type terminals

##### Identification number and letter for switching elements

22 E

#### Certificates/approvals:





last change:

Sep 30, 2011