



CONTACTOR,  
160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 380-  
420V AUXILIARY CONTACTS 2NO+2NC 3-POLE,  
SIZE S10 BAR CONNECTIONS CONVENT. OPERATING  
MECHANISM SCREW TERMINAL

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	22
Item designation		
• according to DIN EN 61346-2		Q
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
Mechanical operating cycles as operating time		
• of the contactor / typical		10,000,000
• of the contactor with added auxiliary switch block / typical		10,000,000
• of the contactor with added electronics-compatible auxiliary switch block / typical		5,000,000
Main circuit:		
Number of poles / for main current circuit		3

Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating current / at AC-1 / at 400 V / at 40 °C ambient temperature / rated value	A	330
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	A	300
<b>Operating current</b> <ul style="list-style-type: none"><li>• at AC-3 / at 400 V / rated value</li></ul>	A	300
<ul style="list-style-type: none"><li>• with 1 current path<ul style="list-style-type: none"><li>• at DC-1<ul style="list-style-type: none"><li>• at 24 V / rated value</li><li>• at 110 V / rated value</li></ul></li><li>• at DC-3 / at DC-5<ul style="list-style-type: none"><li>• at 24 V / rated value</li><li>• at 110 V / rated value</li></ul></li></ul></li></ul>	A  A	300  33
<ul style="list-style-type: none"><li>• with 2 current paths in series<ul style="list-style-type: none"><li>• at DC-1<ul style="list-style-type: none"><li>• at 24 V / rated value</li><li>• at 110 V / rated value</li></ul></li><li>• at DC-3 / at DC-5<ul style="list-style-type: none"><li>• at 24 V / rated value</li><li>• at 110 V / rated value</li></ul></li></ul></li></ul>	A  A	300  300
<ul style="list-style-type: none"><li>• with 3 current paths in series<ul style="list-style-type: none"><li>• at DC-1<ul style="list-style-type: none"><li>• at 24 V / rated value</li><li>• at 110 V / rated value</li></ul></li><li>• at DC-3 / at DC-5<ul style="list-style-type: none"><li>• at 24 V / rated value</li><li>• at 110 V / rated value</li></ul></li></ul></li></ul>	A  A	300  300
<b>Service power</b> <ul style="list-style-type: none"><li>• at AC-1 / at 400 V / rated value</li><li>• at AC-2 / at 400 V / rated value</li><li>• at AC-3<ul style="list-style-type: none"><li>• at 400 V / rated value</li><li>• at 500 V / rated value</li><li>• at 690 V / rated value</li></ul></li></ul>	kW  kW  kW kW kW	197 171  160 215 280
<b>Control circuit:</b>		
Design of activation		conventional
Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC

<b>Control supply voltage frequency</b>		
• 1 / rated value	Hz	40
• 2 / rated value	Hz	60
<b>Control supply voltage / 1</b>		
• for DC		
• initial rated value	V	380
• final rated value	V	420
• at 50 Hz / for AC		
• initial rated value	V	380
• final rated value	V	420
• at 60 Hz / for AC		
• initial rated value	V	380
• final rated value	V	420

<b>Auxiliary circuit:</b>		
<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		2
• lagging switching		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

<b>Short-circuit:</b>		
<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
- at type of coordination 2 / required

fuse gL/gG: 500 A  
fuse gL/gG: 400 A

#### Installation/mounting/dimensions:

##### Type of mounting

screw fixing

##### series installation

Yes

##### Width

mm 145

##### Height

mm 210

##### Depth

mm 202

##### Distance, to be maintained, to earthed part / sideways

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:

##### General Product Approval

##### Functional Safety / Safety of Machinery

##### Test Certificates



CQC



CSA

[ROSTEST](#)



UL

[SUVA](#)

[Manufacturer](#)

##### Shipping Approval

##### other



ABS



DNV



GL

[Manufacturer](#)

[other](#)

#### Further information:

##### Information- and Downloadcenter (Catalogs, Brochures,...)

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

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

##### CAX-Online-Generator

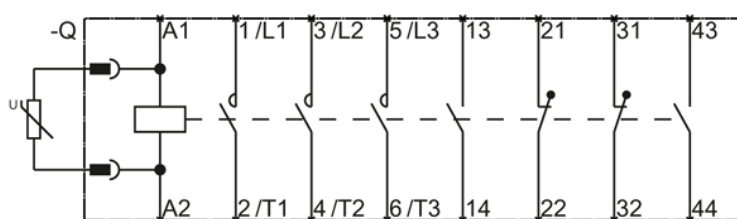
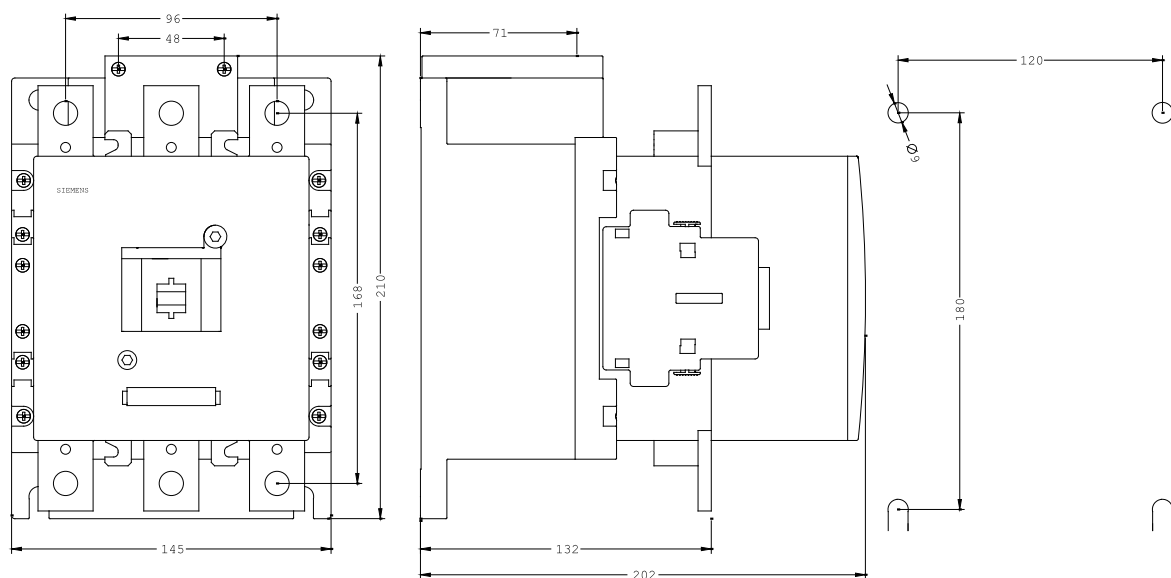
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1066-6AV36/all>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1066-6AV36](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1066-6AV36)



last change:

Sep 30, 2011