# **SIEMENS**

Product data sheet 3RT1456-6AS36



CONTACTOR, 275A/AC-1, AC(40...60HZ)/DC OPERATION UC 500...550V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENT. OPERATING MECHANISM

General details:			
Product brand name		SIRIUS	
product designation		power contactor	
Size of the contactor		S6	
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	20	
Item designation			
according to DIN EN 61346-2		Q	
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		К	
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	
<ul> <li>of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		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	А	275
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	А	250
Operating current		
• at AC-3 / at 400 V / rated value	Α	97
• with 1 current path		
• at DC-1		
• at 24 V / rated value	Α	250
• at 110 V / rated value	Α	18
• at DC-3 / at DC-5		
• at 24 V / rated value	А	250
• at 110 V / rated value	А	2.5
• with 2 current paths in series		
• at DC-1		
• at 24 V / rated value	А	250
• at 110 V / rated value	А	250
• at DC-3 / at DC-5		
• at 24 V / rated value	А	250
• at 110 V / rated value	А	250
• with 3 current paths in series		
• at DC-1		
• at 24 V / rated value	А	250
• at 110 V / rated value	А	250
• at DC-3 / at DC-5		
• at 24 V / rated value	А	250
• at 110 V / rated value	А	250
Service power		
• at AC-1 / at 400 V / rated value	kW	165
• at AC-2 / at 400 V / rated value	kW	55
• at AC-3		
• at 400 V / rated value	kW	55
• at 500 V / rated value	kW	55
• at 690 V / rated value	kW	90

Control circuit:			
Design of activation conventional			
Design of the surge suppressor	with varistor		
Type of voltage / of the controlled supply voltage	AC/DC		

Control supply voltage frequency		
• 1 / rated value	Hz	40
• 2 / rated value	Hz	60
Control supply voltage / 1		
• for DC		
• initial rated value	V	500
• final rated value	V	550
• at 50 Hz / for AC		
• initial rated value	V	500
• final rated value	V	550
• at 60 Hz / for AC		
• initial rated value	V	500
• final rated value	V	550

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

Short-circuit:	
Design of the fuse link	
• 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: 355 A

fuse gL/gG: 350 A

Installation/mounting/dimensions:				
Type of mounting		screw fixing		
series installation		Yes		
Width	mm	120		
Height	mm	172		
Depth	mm	170		
Distance, to be maintained, to earthed part / sidewards	mm	10		

	ion	

#### Design of the electrical connection

• for main current circuit

· for auxiliary and control current circuit

Identification number and letter for switching elements

screw-type terminals

screw-type terminals

22 E

# Certificates/approvals:

#### **General Product Approval**

Functional Safety / Safety of Machinery **Test Certificates** 



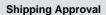


**ROSTEST** 



SUVA

Manufacturer









GL

other

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**

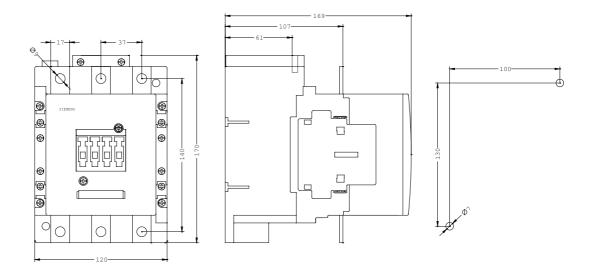
http://www.siemens.com/cax

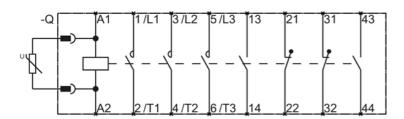
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT1456-6AS36/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT1456-6AS36}}$ 





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