# **SIEMENS**

Product data sheet 3RT1054-1AV36



CONTACTOR, 55KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 380...420V AUX. CONTACTS 2NO+2NC, 3-POLE, SIZE S6 WITH BOX TERMINALS CONVENTIONAL OPERATING MECHAN. SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
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
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 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	Α	160
• at 60 °C ambient temperature / rated value	Α	140
• at AC-3 / at 400 V / rated value	Α	115

• at AC-4 / at 400 V / rated value	Α	97
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	160
• at 110 V / rated value	Α	18
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	160
• at 110 V / rated value	Α	160
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	Α	160
• at 110 V / rated value	Α	160
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	Α	160
• at 110 V / rated value	Α	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	160
• at 110 V / rated value	Α	160
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	160
• at 110 V / rated value	Α	160
Service power		
• at AC-2 / at 400 V / rated value	kW	64
• at AC-3 / at 400 V / rated value	kW	64
• at AC-4 / at 400 V / rated value	W	55,000
Active power loss / per conductor / typical	W	7

Control circuit:		
Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage / 1		
• 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
Operating range factor control supply voltage rated value / of the magnet coil		

• at 50 Hz		
• for AC		0.8 1.1
• at 60 Hz		
• for AC		0.8 1.1
• for DC		0.8 1.1
Apparent pull-in power / of the solenoid / for AC	V-A	300
Apparent holding power / of the solenoid / for AC	V-A	5.8
Inductive power factor / with the pull-in power of the coil		0.9
Inductive power factor / with the pull-in power of the coil		0.8
Pull-in power / of the solenoid / for DC	W	360
Holding power / of the solenoid / for DC	W	5.2

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
Number of NO contacts / for auxiliary contacts / instantaneous switching		2
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	А	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	
<ul> <li>with type of assignment 1 / required</li> </ul>	fuse gL/gG: 355 A
• at type of coordination 2 / required	fuse gL/gG: 315 A

Installation/mounting/dimensions:	
Type of mounting	screw fixing

series installation		Yes
Width	mm	120
Height	mm	172
Depth	mm	180
Distance, to be maintained, to earthed part / sidewards	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

# Certificates/approvals:

#### **General Product Approval**

Functional Safety / Safety of Machinery











Type Examination

Declaration of Conformity

**Test Certificates** 

**Shipping Approval** 



Special Test Certificate







GL

#### other

Confirmation

other

Environmental Confirmations

# **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:

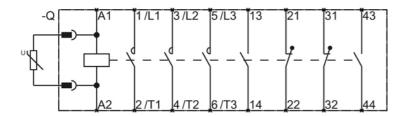
http://www.siemens.com/cax

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

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RT1054-1AV36/all}}$ 

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT1054-1AV36



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