# **SIEMENS**

Product data sheet 3RT1056-6NB36

CONTACTOR, 90KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 21...27.3V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM WITH 24V DC PLC INTERFACE 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
Operational current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	Α	215
• at 60 °C ambient temperature / rated value	Α	185
• at AC-3 / at 400 V / rated value	Α	185
• at AC-4 / at 400 V / rated value	Α	160
• 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
<ul> <li>with 3 current paths in series / at DC-3 / at DC-5</li> </ul>		
• 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	104
• at AC-3 / at 400 V / rated value	kW	104
• at AC-4 / at 400 V / rated value	W	90,000

Control circuit:		
Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC
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	280
Apparent holding power / of the solenoid / for AC	V-A	4.4
Inductive power factor / with the pull-in power of the coil		0.8
Inductive power factor / with the pull-in power of the coil		0.4
Pull-in power / of the solenoid / for DC	W	320
Holding power / of the solenoid / for DC	W	2.8

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	

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: 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	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of the connectable conductor cross-section	
• for AWG conductors / for main contacts	4 250 kcmil
for auxiliary contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
• finely stranded	
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for AWG conductors / for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12

# Certificates/approvals:

### **General Product Approval**

Functional Safety / Safety of Machinery Declaration of Conformity









Type Examination



#### **Test Certificates**

**Shipping Approval** 

Special Test Certificate









#### other

Confirmation

other

Environmental Confirmations

## **Further information:**

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

 $\underline{\text{http://www.siemens.com/industrial-controls/catalogs}}$ 

#### Industry Mall (Online ordering system)

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

#### Cax online generator:

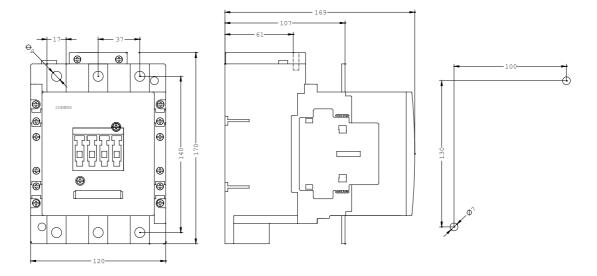
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RT1056-6NB36/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT1056-6NB36}$ 



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