# **SIEMENS**

### **Product data sheet**

3RT1456-6AB38-0PA5



CONTACTOR, 275A/AC-1,
AC(40...60HZ)/DC OPERATION UC 23...26V
AUX.CONT.2NO+2NC SOLID-STATE COMP.,
3-POLE,
SIZE S6 BAR CONNECTIONS CONVENT. OPERATING
MECHANISM

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	275
• 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
<ul> <li>with 2 current paths in series / at DC-1</li> </ul>		
• at 24 V / rated value	Α	250
• at 110 V / rated value	Α	250
<ul> <li>with 3 current paths in series / at DC-1</li> </ul>		
• at 24 V / rated value	Α	250
• at 110 V / rated value	Α	250
<ul><li>with 1 current path / at DC-3 / at DC-5</li></ul>		
• at 24 V / rated value	Α	250
• at 110 V / rated value	Α	2.5
<ul> <li>with 2 current paths in series / at DC-3 / at DC-5</li> </ul>		
• at 24 V / rated value	Α	250
• at 110 V / rated value	Α	250
<ul> <li>with 3 current paths in series / at DC-3 / at DC-5</li> </ul>		
• at 24 V / rated value	Α	250
• at 110 V / rated value	Α	250
Service power		
• at AC-2 / at 400 V / rated value	kW	55
• at AC-3 / at 400 V / rated value	kW	55

Control circuit:		
Design of the surge suppressor		with varistor
Voltage type / of control feed 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	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:	
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	
<ul> <li>with type of assignment 1 / required</li> </ul>	fuse gL/gG: 355 A
• at type of coordination 2 / required	fuse gL/gG: 350 A

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

Connection type:	
Design of the electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	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,...)

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

Industry Mall (Online ordering system)

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

Cax online generator:

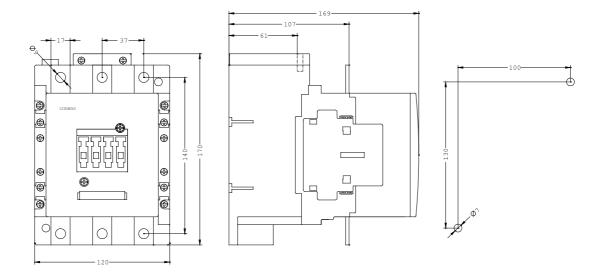
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RT1456-6AB38-0PA5/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT1456-6AB38-0PA5}$ 



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