# **SIEMENS**

Product data sheet 3RT1045-3AF04

CONTACTOR 3-PH 37 KW/400 V, 2 NO + 2 NC, 110 V AC, 50 HZ, 3-POLE, SIZE S3,

MAIN CUR.: SCREW CONNECTION MAIN CUR.: CAGE

CLAMP

General technical data:		
product brand name		SIRIUS
Size of the contactor		S3
Protection class IP / on the front		IP20
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	120
• at 60 °C ambient temperature / rated value	Α	100
• at AC-3 / at 400 V / rated value	Α	80
• at AC-4 / at 400 V / rated value	Α	66
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	9
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	100
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	100

• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	Α	40
• 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	100
• at 110 V / rated value	Α	100
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	100
Service power		
• at AC-2 / at 400 V / rated value	kW	37
• at AC-3 / at 400 V / rated value	kW	37
• at AC-4 / at 400 V / rated value	W	37,000
Control circuit:		
Type of voltage / of the controlled supply voltage		AC
Operating range factor control supply voltage rated value / of		
the magnet coil		
• at 50 Hz		
• for AC	_	0.8 1.1
Apparent pull-in power / of the solenoid / for AC	V-A	270
Apparent holding power / of the solenoid / for AC	V-A	22
Inductive power factor / with the pull-in power of the coil		0.68
Inductive power factor / with the pull-in power of the coil		0.27
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		fuse gL/gG: 250 A
• at type of coordination 2 / required		fuse gL/gG: 160 A
Installation/mounting/dimensions:		
Type of mounting		screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
series installation		Yes

Width	mm	70
Height	mm	146
Depth	mm	188
Distance, to be maintained, to earthed part / sidewards	mm	6

Connection type:				
Design of the electrical connection				
for main current circuit	screw-type terminals			
for auxiliary and control current circuit	Cage Clamp terminals			
Type of the connectable conductor cross-section				
• for main contacts				
• solid	2x (2.5 16 mm²)			
• stranded	2x (4 50 mm²)			
• finely stranded				
<ul> <li>with conductor end processing</li> </ul>	2x (2.5 35 mm²)			
<ul> <li>without conductor final cutting</li> </ul>	2x (4 35 mm²)			
• for AWG conductors / for main contacts	2x (10 1/0)			
for auxiliary contacts				
• solid	2x (0.25 2.5 mm²)			
• finely stranded				
<ul> <li>with conductor end processing</li> </ul>	2x (0.25 1.5 mm²)			
<ul> <li>without conductor final cutting</li> </ul>	2x (0.25 2.5 mm²)			
• for AWG conductors / for auxiliary contacts	2x (24 14)			

## Certificates/approvals:

## **General Product Approval**

Functional Safety / Safety of Machinery

Declaration of Conformity









Type Examination



## **Test Certificates**

Special Test Certificate

### **Shipping Approval**







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:

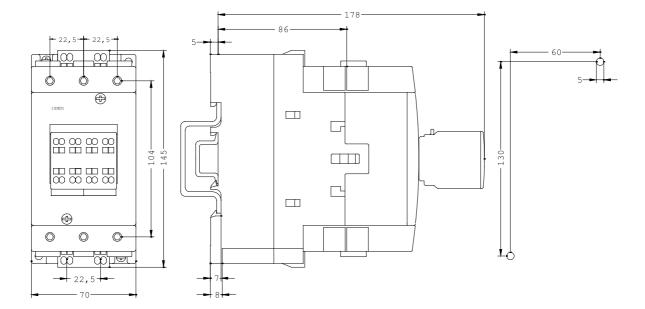
http://www.siemens.com/cax

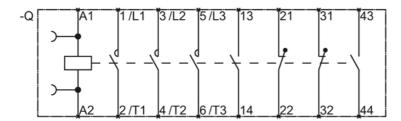
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT1045-3AF04/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT1045-3AF04





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