SIEMENS

Product data sheet 3RT1034-1AP04

CONTACTOR, AC-3 15 KW/400 V, AC 230 V,
50 HZ, 2 NO + 2 NC 3-POLE, SIZE S2,
SCREW CONNECTION

General technical data:		
product brand name		SIRIUS
Size of the contactor		S2
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
• of the contactor with added electronics-compatible auxiliary switch block / typical		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	A	50
• at 60 °C ambient temperature / rated value	A	45
• at AC-3 / at 400 V / rated value	A	32

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• at AC-4 / at 400 V / rated value	A	29
• with 1 current path / at DC-1		
• at 24 V / rated value	A	45
• at 110 V / rated value	A	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	45
• at 110 V / rated value	A	25
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	45
• at 110 V / rated value	A	45
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	45
• at 110 V / rated value	A	25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	45
• at 110 V / rated value	A	45
Service power		
• at AC-2 / at 400 V / rated value	kW	15
• at AC-3 / at 400 V / rated value	kW	15
• at AC-4 / at 400 V / rated value	W	15,000
Active power loss / per conductor / typical	W	1.8

Control circuit:

Type of voltage / of the controlled supply voltage		AC
Control supply voltage / 1		
• at 50 Hz / for AC		
• rated value	V	230
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	104
Apparent holding power / of the solenoid / for AC	V·A	9.7
Inductive power factor / with the pull-in power of the coil		0.78
Inductive power factor / with the pull-in power of the coil		0.42

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

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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	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	A	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		fuse gL/gG: 125 A
• at type of coordination 2 / required		fuse gL/gG: 63 A

Installation/mounting/dimensions:

Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
series installation		Yes
Width	mm	55
Height	mm	112
Depth	mm	164
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		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (0.75 ... 16 mm²)

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• stranded	2x (0.75 ... 25 mm²)
• finely stranded	
• with conductor end processing	2x (0.75 ... 16 mm²)
• without conductor final cutting	2x (0.75 ... 16 mm²)
• for AWG conductors / for main contacts	2x (18 ... 2)
• for auxiliary contacts	
• solid	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)
• finely stranded	
• with conductor end processing	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
CCC	CSA	GOST	KETI	Type Examination	EG-Konf.

Test Certificates	
Special Test Certificate	Type Test Certificates/Test Report

Shipping Approval					
ABS	BUREAU VERITAS	DNV	GL	LRS	RINA

Shipping Approval	other		
RMRS	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/3RT1034-1AP04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1034-1AP04

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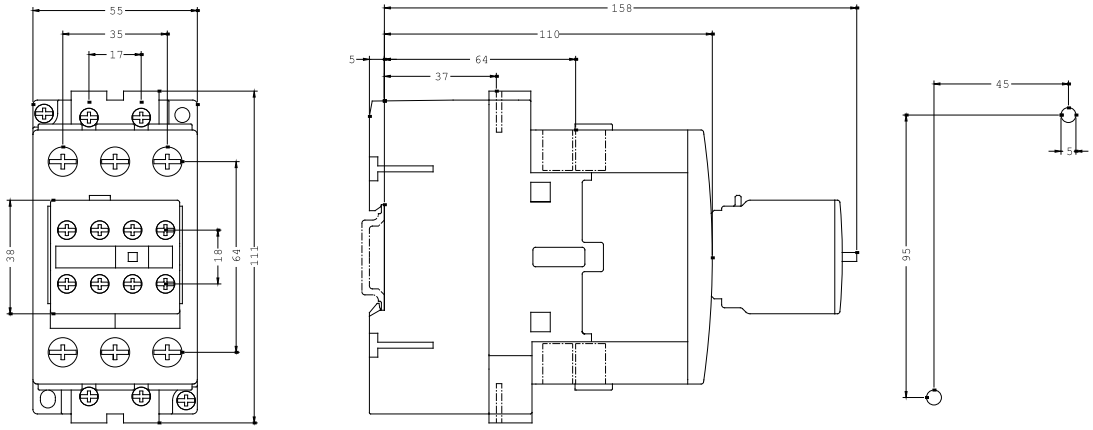

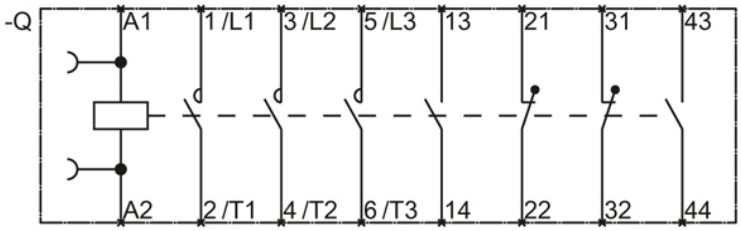

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