SIEMENS

Product data sheet 3RT1024-1AP04

CONTACTOR, AC-3 5.5 KW/400 V, AC 230 V, 50 HZ, 3-POLE, 2 NO + 2 NC, SIZE S0, SCREW CONNECTION

General details:		
product brand name		SIRIUS
product designation		power contactor
Size of the contactor		S0
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
Active power loss / per conductor / typical	W	0.5
Item designation		
• according to DIN EN 61346-2		Q
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
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 poles / for main current circuit		3

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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	40
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	A	35
Operating current		
• at AC-3 / at 400 V / rated value	A	12
• with 1 current path		
• at DC-1		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	4.5
• at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	2.5
• with 2 current paths in series		
• at DC-1		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	35
• at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	15
• with 3 current paths in series		
• at DC-1		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	35
• at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	35
Service power		
• at AC-1 / at 400 V / rated value	kW	23
• at AC-2 / at 400 V / rated value	kW	5.5
• at AC-3		
• at 400 V / rated value	kW	5.5
• at 500 V / rated value	kW	7.5
• at 690 V / rated value	kW	7.5

Control circuit:		
Design of activation		conventional
Type of voltage / of the controlled supply voltage		AC
Control supply voltage frequency		

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• 1 / rated value	Hz	50
Control supply voltage / 1		
• at 50 Hz / for AC		
• rated value	V	230

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
• lagging switching		0
Number of NO contacts / for auxiliary contacts		
• instantaneous switching		2
• leading switching		0
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: 63 A
• at type of coordination 2 / required		fuse gL/gG: 25 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	45
Height	mm	85

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Depth	mm	140
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
Identification number and letter for switching elements		22 E

Certificates/approvals:

General Product Approval | **Functional Safety / Safety of Machinery**

CQC | CSA | KETI | ROSTEST | UL | SUVA

Test Certificates

Manufacturer

Shipping Approval

ABS | BUREAU VERITAS | DNV | GL | LRS

Shipping Approval | **other**

RMRS | Manufacturer | other

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/3RT1024-1AP04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1024-1AP04

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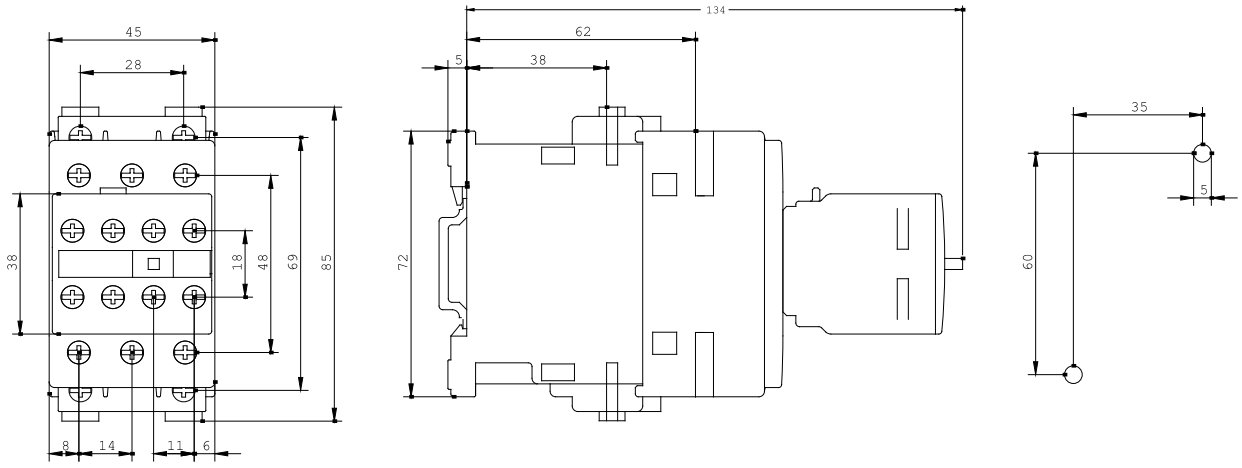

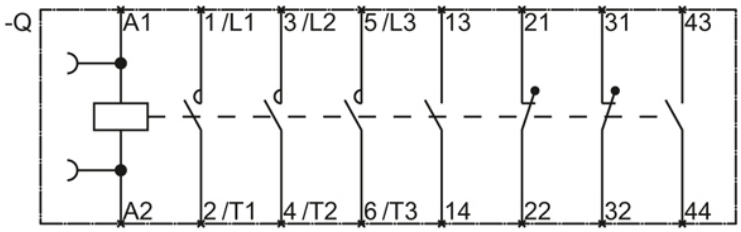

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