SIEMENS

Product data sheet 3RT1024-1AK60

CONTACTOR, AC-3 5,5KW/400 V,
AC 110V 50HZ/120V 60HZ, 3-POLE,
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
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		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• at 50 Hz / for AC		
• rated value	V	110
• at 60 Hz / for AC		
• rated value	V	120

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		0
• lagging switching		0

Number of NO contacts / for auxiliary contacts		
• instantaneous switching		0
• 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
Depth	mm	91
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

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	RINA

Shipping Approval	other	
RMRS	Manufacturer	other

Further information:

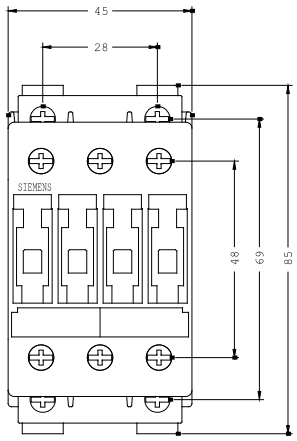
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

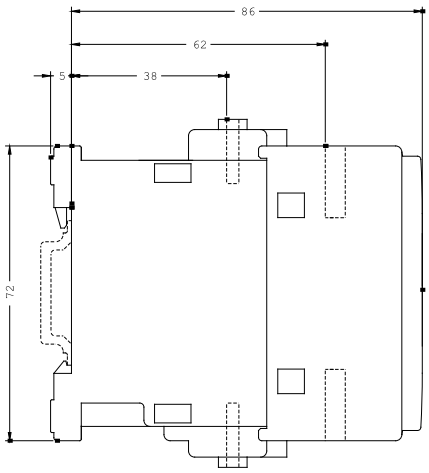
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

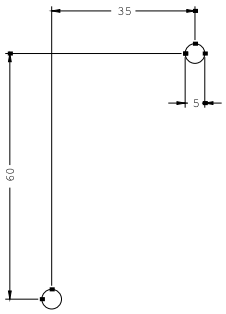
CAx-Online-Generator
http://www.siemens.com/cax

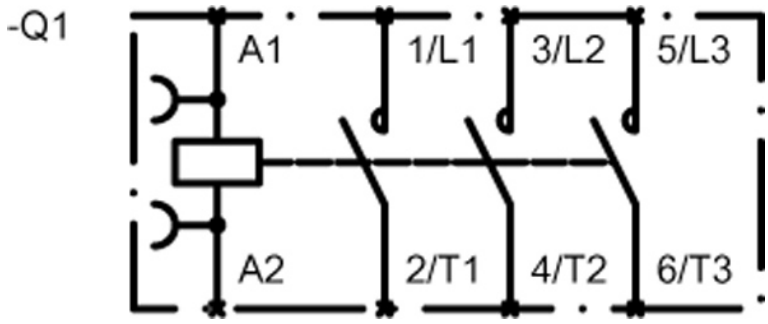
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RT1024-1AK60/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1024-1AK60









last change: Feb 10, 2012