SIEMENS

Product data sheet 3RT1446-6AV66

CONTACTOR 1-PH, 140A/400V 480 V AC,
60 HZ AUX. CONTACTS 2N + 2NC LATERAL 3-POLE,
SIZE S3 BAR CONNECTIONS

General technical data:		
product brand name		SIRIUS
Size of the contactor		S3
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
• 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
Operational current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	140
• at 60 °C ambient temperature / rated value	A	130
• at AC-3 / at 400 V / rated value	A	44

• with 1 current path / at DC-1		
• at 24 V / rated value	A	130
• at 110 V / rated value	A	12
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	130
• at 110 V / rated value	A	130
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	130
• at 110 V / rated value	A	130
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	6
• at 110 V / rated value	A	1.25
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	130
• at 110 V / rated value	A	130
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	130
• at 110 V / rated value	A	130
Service power		
• at AC-2 / at 400 V / rated value	kW	22
• at AC-3 / at 400 V / rated value	kW	22

Control circuit:		
Type of voltage / of the controlled supply voltage		AC
Operating range factor control supply voltage rated value / of the magnet coil		
• at 60 Hz		
• for AC		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	21
Inductive power factor / with the pull-in power of the coil		0.52
Inductive power factor / with the pull-in power of the coil		0.29

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: 250 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	90
Height	mm	146
Depth	mm	139
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 AWG conductors / for main contacts		7 ... 1/0
• 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	UL	Type Examination	EG-Konf.

Test Certificates	Shipping Approval			
Special Test Certificate	ABS	GL	RINA	RMRS

other		
Confirmation	other	Environmental Confirmations

Further information:

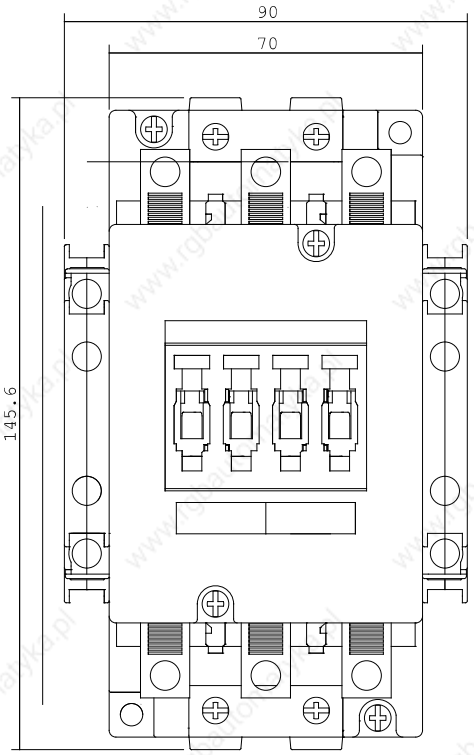
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

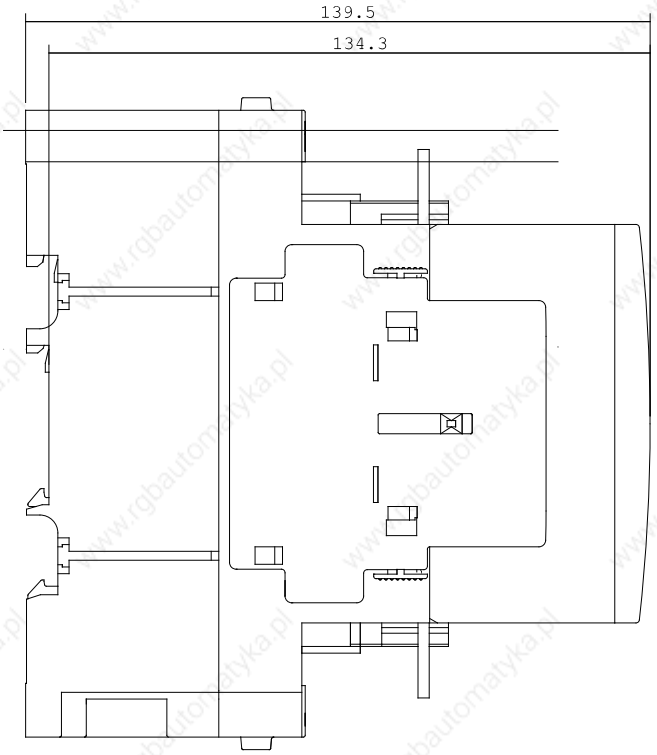
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

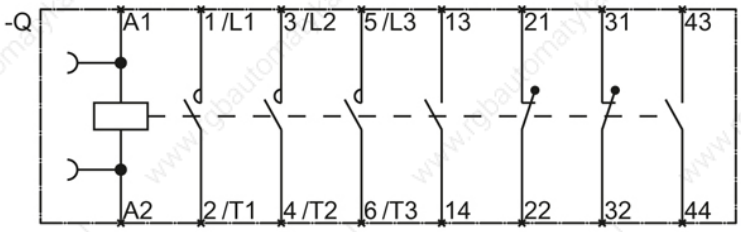
Cax online generator:
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RT1446-6AV66/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1446-6AV66







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