



CONTACTOR RELAY, 4 NO+4 NC,
W. PERMANENT. JOINTED AUXILIARY SWITCH BLOCK,
CAGE CLAMP CONNECTION, AC 230V, 50/60HZ

General technical data:

product brand name		SIRIUS
Product designation		contactor relay
Size of the contactor		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during transport	°C	-55 ... +80
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 1 mA)
Resistance against shock		10g / 5 ms and 5g / 10 ms
Impulse voltage resistance / rated value	kV	6
Reference code		
• according to DIN EN 61346-2		K
• according to DIN 40719 extended according to IEC 204-2 / according to IEC 750		K
• according to DIN EN 81346-2		K

Mechanical operating cycles as operating time			10,000,000
• of the contactor / typical			
Control circuit/ Control:			
Voltage type / of control feed voltage			AC
Control supply voltage frequency			
• 1 / rated value		Hz	50
• 2 / rated value		Hz	60
Control supply voltage			
• at 50 Hz / at AC / rated value		V	230
• at 60 Hz / at AC / rated value		V	230
Operating range factor control supply voltage rated value / of the magnet coil			
• at 50 Hz			0.8 ... 1.1
• for AC			
• at 60 Hz			0.85 ... 1.1
• for AC			
Apparent pull-in power / of the solenoid / for AC		V·A	27
Apparent holding power / of the solenoid / for AC		V·A	4.6
Inductive power factor			
• with the pull-in power of the coil			0.8
• with the pull-in power of the coil			0.27
Auxiliary circuit:			
Product extension / auxiliary switch			No
Identification number and letter for switching elements			44 E
Contact reliability / of the auxiliary contacts			1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts			4
• delayed switching			0
• instantaneous switching			4
• asynchronous switching			0
• lagging switching			0
Number of NO contacts / for auxiliary contacts			4
• instantaneous switching			4
• delayed switching			0
• asynchronous switching			0
• leading switching			0
Number of changeover contacts			
• for auxiliary contacts			0
• of the auxiliary contacts / instantaneous switching			0
Operating current			

• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V / rated value	A	6
• at 400 V / rated value	A	3
• at 500 V / rated value	A	2
• at 690 V / rated value	A	1
Operating current / with 1 current path		
• at DC-12		
• at 24 V / rated value	A	10
• at 110 V / rated value	A	3
• at 220 V / rated value	A	1
• at DC-13		
• at 24 V / rated value	A	10
• at 110 V / rated value	A	1
• at 220 V / rated value	A	0.27

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 10 A

Installation/ mounting/ dimensions:

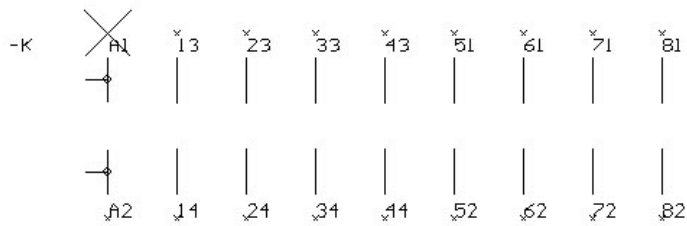
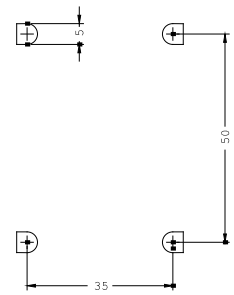
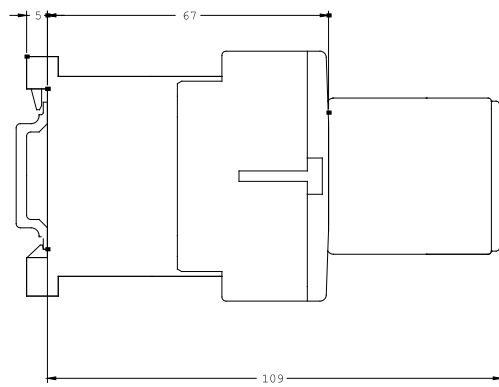
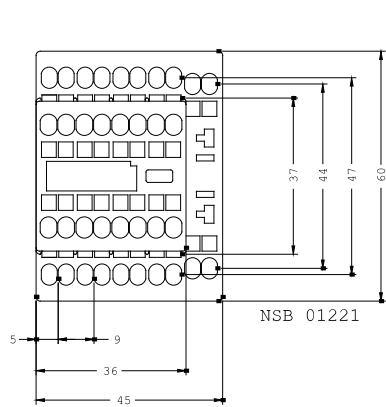
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type		screw and snap-on mounting
Width	mm	45
Height	mm	60
Depth	mm	114
Distance, to be maintained, to the ranks assembly / sideways	mm	0

Connections/ terminals:

Design of the electrical connection / for auxiliary and control current circuit		Cage Clamp terminals
Type of the connectable conductor cross-section		
• for auxiliary contacts		
• solid		2x (0.25 ... 2.5 mm²)
• finely stranded		
• with conductor end processing		2x (0.25 ... 1.5 mm²)
• without conductor final cutting		2x (0.25 ... 2.5 mm²)
• for AWG conductors / for auxiliary contacts		2x (24 ... 14)

Certificates/ approvals:

Verification of suitability	CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA	
General Product Approval	Functional Safety / Safety of Machinery	Declaration of Conformity
 CCC	 CSA	 EAC
	 UL	 EG-Konf.
Test Certificates	Shipping Approval	
Special Test Certificate	Type Test Certificates/Test Report	 ABS
		 GL
		 RINA
		 RMRS
other		
other	Environmental Confirmations	
Safety related data:		
Proportion of dangerous failures		
• with high demand rate / according to SN 31920	%	75
• with low demand rate / according to SN 31920	%	40
Protection against electrical shock		finger-safe
T1 value / for proof test interval or service life / according to IEC 61508	a	20
B10 value / with high demand rate		
• according to SN 31920		1,000,000
• note		With 0.3 x Ie
Further information:		
Information- and Downloadcenter (Catalogs, Brochures,...)		
http://www.siemens.com/industrial-controls/catalogs		
Industry Mall (Online ordering system)		
https://mall.industry.siemens.com/		
Cax online generator		
http://www.siemens.com/cax		
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)		
http://support.automation.siemens.com/WW/view/en/3RH1244-2AP00/all		
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)		
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1244-2AP00		



last change:

Jul 21, 2014