SIEMENS

Product data sheet

3RH1131-1AP00



CONTACTOR RELAY, 3NO+1NC, AC 230 V, 50 HZ, SCREW CONNECTION, SIZE S00

General details:		
Product brand name		SIRIUS
Product designation		contactor relay
Size of the contactor		S00
Protection class IP / frontal/front side		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during the operating phase	°C	-25 60
Resistance against shock		10g / 5 ms and 5g / 10 ms
Impulse voltage resistance / rated value	kV	6
Item designation		
according to DIN EN 61346-2		К
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		κ
Mechanical operating cycles as operating time		
• of the contactor / typical		30,000,000

of the contactor with added determines-compatible auxiliary switch block / typical Totop control control with added determines-compatible auxiliary switch block / typical Control circuit Type of voltage / of the controlled supply voltage A C control supply voltage frequency Hz 50 • 1 / rated value Hz 50 • 2 / rated value Hz 50 • 1 / rated value Hz 50 • 1 / rated value V 200 • 1 / rated value V 200 • et s0 Hz - - • of AC / rated value V 200 • et s0 Hz - - • of AC / rated value V 200 • of AC / rated value 0.8 1.1 • at bolding power / of the solenoid / for AC V/A 27 Aparent holding power /	of the contactor with added auxiliary switch block / typical		10,000,000
whiteh block / typical AC Control singly voltage / of the controlled supply voltage AC control supply voltage frequency HZ i / raited value BZ 2 / raited value BZ • of AC / raited value V • of AC / raited value 0.8 1.1 • of AC / raited value 0.8 1.1 • of AC / raited value 0.8 0.1 • of AC / raited value 0.8 0.1 </td <td></td> <td></td> <td></td>			
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• 1/ rated valueHz50• 2/ rated valueHz60• af S0 Hz• 0• af S0 Hz• 0• af S0 HzV230• af S0 HzV230• af S0 HzV230• for AC / rated valueV230Operating range factor control supply voltage rated value / of the solenoidV230• af S0 HzV230• for ACvalueV230Operating range factor control supply voltage rated value / of the solenoid / for ACV230• af S0 Hz0.8 1.10.8 1.1• af S0 Hz0.85 1.10.85 1.1• for AC0.85 1.10.85 1.1Apparent pull-In power / of the solenoid / for ACV/A4.6Power factor inductive0.80.27• at pull-In power of the coil0.270.27Auxillary vortuit:10.27Product extension / auxillary contact0.11Identification number and letter for switching elements31 EContact reliability / of the auxillary contact11· delayed switching00· instantaneous switching <td< td=""><td>Type of voltage / of the controlled supply voltage</td><td></td><td>AC</td></td<>	Type of voltage / of the controlled supply voltage		AC
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Control supply voltage / 1 V 230 • for AC / rated value V 230 Operating range factor control supply voltage rated value / of the solenoid / for AC V 230 • for AC / rated value V 85 1.1 • for AC / rated value V A6 • for AC / rated value V 46 • for AC / rated value V 46 • at puli-in power of the coil 0.8 0.27 • restitive loss der Magnetspule bel DC typisch Y Y • foldayed switching 1	• 1 / rated value	Hz	50
• at 50 Hzv230• at 60 HzV230• at 60 HzV230• for AC / rated valueV230Operating range factor control supply voltage rated value / of the solenoidV230• at 50 HzV0.8 1.1• for AC0.8 1.10.8 1.1• for AC0.8 1.10.85 1.1• for ACVA27• for ACVA4.6• for ACVA4.6• for AC0.8 0.27• at bulkin power / of the solenoid / for ACVA4.6• at bulkin power of the coil0.27• at bulkin power of the coil0.27• at bulkin power of the coil0.127• at bulkin power of the coil1• at bulkin power of the coil11EContact reliability / of the auxiliary contact1Instantaneous switching0• asynchronous switching0• asynchronous switching3• asynchronous switching <td>• 2 / rated value</td> <td>Hz</td> <td>60</td>	• 2 / rated value	Hz	60
• for AC / rated valueV200• at 60 Hz • tor AC / rated valueV300Operating range factor control supply voltage rated value / of the solenoidV300• at 50 Hz • for AC0.81.1• for AC0.81.1• for ACV.A27• for ACV.A27• for AC0.81.1Apparent pull-in power / of the solenoid / for ACV.A4.6• at pull-in power of the coli0.81.1• at pull-in power of the coli0.81.1• at pull-in power of the coli0.81• at pull-in power of the coli11• at pull-in power of the coli0.81• at pull-in power of the coli11• at pull-in power of the coli3.11• at pull-in power of the coli3.11• at pull-in power of the coli11• at pull-in power of th	Control supply voltage / 1		
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• at pull-in power of the coil0.8• at holding power of the coil0.27Resistive loss der Magnetspule bei DC typisch•	Apparent holding power / of the solenoid / for AC	V·A	4.6
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• instantaneous switching 3 • delayed switching 0 • asynchronous switching 0	lagging switching		0
delayed switching o asynchronous switching O	Number of NO contacts / for auxiliary contact		3
• asynchronous switching 0	instantaneous switching		3
	delayed switching		0
leading switching 0	asynchronous switching		0
	leading switching		0

Number of changeover contacts		
for auxiliary contact		0
 of the auxiliary contacts / non-delayed 		0
Operating current / of the auxiliary contacts	-	
• at AC-12 / maximum	А	10
• at AC-15		
• at 230 V	А	6
• at 400 V	А	3
• at 500 V	А	2
• at 690 V	А	1
• with 1 current path		
• at DC-12		
• at 24 V	А	10
• at 110 V	А	3
• at 220 V	А	1
• at DC-13		
• at 24 V	А	10
• at 110 V	А	4
• at 220 V	А	0.22
Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
Installation/mounting/dimensions:		
built in orientation		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Type of fixing/fixation	-	screw and snap-on mounting
Width	mm	45
Height	mm	57.5
Depth	mm	72
distance, to be maintained, to the ranks assembly / sidewards	mm	0
Connections:		
design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross section		
for auxiliary contacts		
		2x (0.51.5 mm2), 2x (0.75 2.5 mm2), max. 2x (1
• solid		4 mm2)
solid finely stranded		4 mm2)

• for AWG conductors / for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/approvals:

verification of suitability

CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA

Safety:				
Proportion of dangerous failures				
 with high demand rate / according to SN 31920 	%	75		
with low demand rate / according to SN 31920	%	40		
T1 value / for proof test interval or service life / according to IEC 61508	а	20		
Protection against electrical shock		finger-safe		
B10 value / with high demand rate / according to SN 31920		1,000,000		

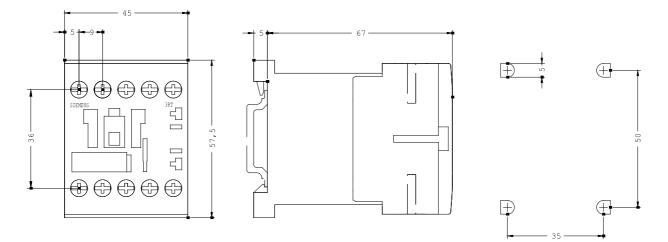
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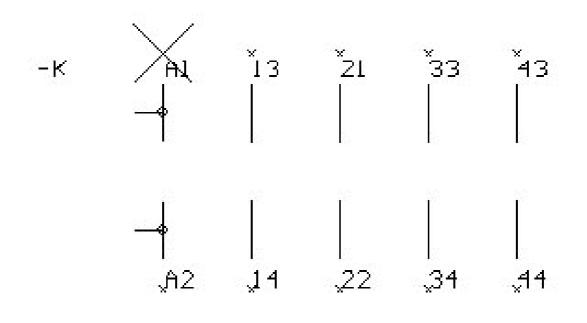
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last change:

Jun 14, 2010