## SIEMENS

## **Product data sheet**

## 3RH1122-1AV00



CONTACTOR RELAY, 2NO+2NC, AC 400 V 50/60 HZ SCREW CONNECTION, SIZE S00

General details:		
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
Item designation		
according to DIN EN 61346-2		К
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		К
Mechanical operating cycles as operating time		

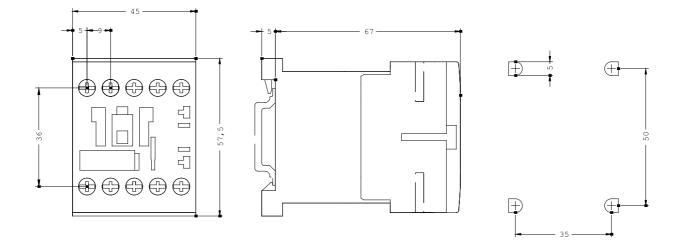
	• of the contactor / typical		30,000,000
<ul> <li>of the contactor with added electronics-compatible audilary with block / typical</li> <li>Control circuit</li> <li>Type of valtage / of the controlled supply voltage</li> <li>Control supply voltage frequency</li> <li>i / rated value</li> <li>Control supply voltage frequency</li> <li>i / rated value</li> <li>Control supply voltage / 1</li> <li>a do 1</li> <li>con AC / rated value</li> <li>i for AC / rated value</li> <li>i for AC / rated value</li> <li>i or AC / rated value<td></td><td></td><td></td></li></ul>			
switch block / typical  Control circuit:  Type of voltage / of the controlled supply voltage Control supply voltage frequency  · 1 / rated value · 2 / rated value · 2 / rated value · 1 / rated value · 2 / rated			
Type of voltage / of the controlled supply voltage         AC           Control supply voltage frequency         IHZ         50           • 1 / rated value         HZ         50           • 2 / rated value         HZ         60           Control supply voltage / 1			
Control supply voltage frequency         Hz         50           • 1 / rated value         Hz         50           • 2 / rated value         Hz         60           Control supply voltage / 1         +         60           • at 50 Hz         -         00           • for AC / rated value         V         400           • at 50 Hz         -         400           • for AC / rated value         V         400           • at 50 Hz         -         0.8           • for AC / rated value         V         400           • at 50 Hz         0.8         0.8           • for AC         -         0.8         1.1           • at 50 Hz         0.8         0.8         0.8           • for AC         0.8         0.8         1.1           • at 50 Hz         0.8         0.8         0.1           • at 60 Hz         0.8         0.8         0.1           • for AC         0.8         0.2         0.8           • or AC         0.8         0.2         0.2           • with the pull-in power of the coil         0.8         0.2         0.2           • with the pull-in power factor         VEX         1 faulty swit	Control circuit:		
1/ rate valueHz502/ rate valueHz60Control supply voltage / 1	Type of voltage / of the controlled supply voltage		AC
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• at 60 Hz• Main 	• at 50 Hz		
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Number of NO contacts / for auxiliary contacts       2         • instantaneous switching       2         • delayed switching       0         • asynchronous switching       0	asynchronous switching		0
• instantaneous switching2• delayed switching0• asynchronous switching0	lagging switching		0
delayed switching     o     asynchronous switching     O	Number of NO contacts / for auxiliary contacts		2
• asynchronous switching 0	instantaneous switching		2
	delayed switching		0
leading switching     0	asynchronous switching		0
	leading switching		0

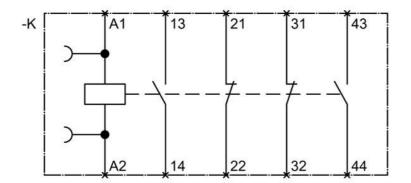
Number of changeover contacts		
for auxiliary contacts		0
of the auxiliary contacts / instantaneous switching		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	А	10
• at AC-15		
• at 230 V	А	6
• at 400 V	А	3
• at 500 V	А	2
• at 690 V	А	1
with 1 current path		
• at DC-12		
• at 24 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	1
• at 220 V	А	0.27
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 mounting		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 the connectable conductor cross-section		
for auxiliary contacts		
		$2x (0.5 + 1.5 mm^2) 2x (0.75 + 2.5 mm^2) 2x (1.mm^2)$
• solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
		2x (0.5 1.5 min <sup>-</sup> ), 2x (0.75 2.5 min <sup>-</sup> ), 2x 4 min <sup>-</sup>

<ul> <li>for AWG conductors</li> </ul>	/ for auxiliary contacts

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

Certificates/approvals:					
Verification of suitability			CSA / UL / C RINA	CC / GL / LRS / B	/ / DNV / RMRS /
General Product Approval			Saf	ctional Safety / ety of chinery	Test Certificates
cqc CSA	ROSTEST		<u>SU</u>	/ <u>A</u>	Manufacturer
Shipping Approval					
ABS	ĴŠ DNV	GL	L Re	ovd's gister LRS	PRS
Shipping Approval	other				
RINA RMRS	Manufacturer				
Safety:					
Proportion of dangerous failures					
<ul> <li>with high demand rate / according to SN 31920</li> </ul>		%	75		
• with low demand rate / according to S		% a	40 20		
• with low demand rate / according to S T1 value / for proof test interval or serv 61508		-			
• with low demand rate / according to S T1 value / for proof test interval or serv 61508 Protection against electrical shock	vice life / according to IEC	-	20		
	vice life / according to IEC	-	20 finger-safe		
• with low demand rate / according to S T1 value / for proof test interval or serv 61508 Protection against electrical shock B10 value / with high demand rate / acc Further information: Information- and Downloadcenter (Cata	vice life / according to IEC cording to SN 31920 alogs, Brochures,)	-	20 finger-safe		
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last change:

Jan 30, 2012