

CONTACTOR RELAY, 7NO+1NC, DC 24V, SIZE S00,
SCREW TERMINAL, PERMANENT AUX. SWITCH,
FOR SUVA APPLICATIONS

product brand name	SIRIUS
Product designation	contactor relay

General technical data:

Insulation voltage		
<ul style="list-style-type: none"> with degree of pollution 3 Rated value 	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul style="list-style-type: none"> of the contactor typical 		10 000 000
Protection class IP		
<ul style="list-style-type: none"> on the front 		IP20
Equipment marking		
<ul style="list-style-type: none"> acc. to DIN EN 61346-2 		K
<ul style="list-style-type: none"> acc. to DIN EN 81346-2 		K

Control circuit/ Control:

Type of voltage of the control supply voltage		DC
Control supply voltage for DC		
<ul style="list-style-type: none"> Rated value 	V	24
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 ... 1.1
Closing power of the magnet coil for DC	W	4
Holding power of the magnet coil for DC	W	4

Auxiliary circuit:

Number of NC contacts		
<ul style="list-style-type: none"> for auxiliary contacts 		1
<ul style="list-style-type: none"> — instantaneous contact 		1
<ul style="list-style-type: none"> — delayed switching 		0
<ul style="list-style-type: none"> — lagging switching 		0
<ul style="list-style-type: none"> — make-before-break switching 		0
Number of NO contacts		
<ul style="list-style-type: none"> for auxiliary contacts 		7
<ul style="list-style-type: none"> — instantaneous contact 		7
<ul style="list-style-type: none"> — delayed switching 		0
<ul style="list-style-type: none"> — leading contact 		0

— make-before-break switching		0
Number of CO contacts		
• for auxiliary contacts		0
Product expansion Auxiliary switch		No
Identification number and letter for switching elements		71 E
Operating current at AC-15		
• at 230 V Rated value	A	6
• at 400 V Rated value	A	3
• at 690 V Rated value	A	1
Design of the miniature circuit breaker		
• for short-circuit protection of the auxiliary circuit up to 230 V		C characteristic: 6 A; 0.4 kA
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings:		
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

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 onto 35 mm standard mounting rail
Height	mm	57.5
Width	mm	45
Depth	mm	116
Required spacing		
• for grounded parts		
— at the side	mm	6
• for live parts		
— at the side	mm	6

Connections/ Terminals:		
Type of electrical connection		
• for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for auxiliary contacts		
— single or multi-stranded		2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x 4 mm ²
— finely stranded with core end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14), 2x 12

Safety related data:

B10 value with high demand rate acc. to SN 31920		1 000 000
• Note		With 0.3 x I _e
Proportion of dangerous failures		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
T1 value for proof test interval or service life acc. to IEC 61508	y	20
Protection against electrical shock		finger-safe





Mechanical data:

Size of contactor		S00
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Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-55 ... +80

Certificates/ approvals:

General Product Approval	Declaration of Conformity	other
 CCC	 CSA	
	 EG-Konf.	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/industrymall>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RH22711BB40>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RH22711BB40/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RH22711BB40&lang=en

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