http://support.automation.siemens.com/WW/view/en/33235978&td=1



- of the contactor with added auxiliary switch block / typical
  of the contactor with added electronics-
- or the contactor with added electronicscompatible auxiliary switch block / typical

## Control circuit:

SIEMENS

Type of voltage / of the controlled supply voltage

10,000,000

DC

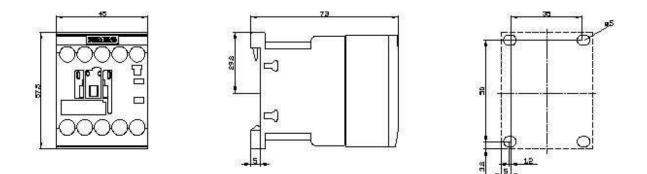
## Industry Automation and Drive Technologies Service & Support

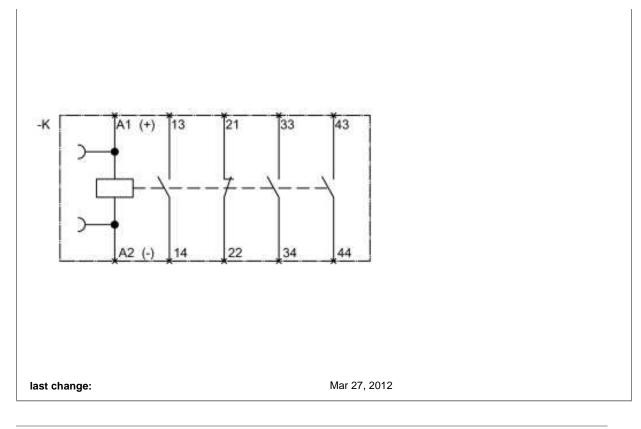
<ul> <li>Control supply voltage / 1</li> <li>for DC / rated value</li> </ul>	V	24
Operating range factor control supply voltage rated value / of the magnet coil	-	
for DC		0.81.1
Holding power / of the solenoid / for DC	W	4
Pull-in power / of the solenoid / for DC	W	4
Closing delay		
at DC	ms	30100
Opening delay		
at DC	ms	2590
Arcing time	S	1015

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		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		3
Operating current / of the auxiliary contacts / at AC-12 / maximum	A	10
Operating current / of the auxiliary contacts / at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at 500 V	A	2
• at 690 V	А	1
Operating current		
<ul> <li>of the auxiliary contacts / with 1 current path / at DC-12</li> </ul>		
• at 24 V	А	6
• at 110 V	А	3
• at 220 V	А	1
<ul> <li>with 2 current paths in series / at DC-12</li> </ul>		
<ul> <li>at 24 V / rated value</li> </ul>	А	10
<ul> <li>at 60 V / rated value</li> </ul>	А	10
<ul> <li>at 110 V / rated value</li> </ul>	А	4
<ul> <li>at 220 V / rated value</li> </ul>	А	2
<ul> <li>at 440 V / rated value</li> </ul>	А	1.3
<ul> <li>at 600 V / rated value</li> </ul>	А	0.65
<ul> <li>with 3 current paths in series / at DC-12</li> </ul>		
<ul> <li>at 24 V / rated value</li> </ul>	А	10
<ul> <li>at 60 V / rated value</li> </ul>	А	10
<ul> <li>at 110 V / rated value</li> </ul>	А	10
<ul> <li>at 220 V / rated value</li> </ul>	А	3.6
<ul> <li>at 440 V / rated value</li> </ul>	А	2.5
<ul> <li>at 600 V / rated value</li> </ul>	А	1.8
Operating current	-	
of the auxiliary contacts / with 1 current		
path / at DC-13		
• at 24 V	А	6
• at 110 V	А	1
• at 220 V	А	0.3
<ul> <li>with 2 current paths in series / at DC-13</li> </ul>		
• at 24 V / rated value	А	10
<ul> <li>at 60 V / rated value</li> </ul>	А	3.5
<ul> <li>at 110 V / rated value</li> </ul>	А	1.3

Design of the electrical connection     for auxiliary and control current circuit		
Connections:		
Distance, to be maintained, to the ranks assembly / sidewards	mm	0
Height Depth	_ mm _ mm	57.5 73
Width	mm	45
		standard mounting rail
Built in orientation Type of mounting	-	vertical screw and snap-on mounting onto 35 mm
Installation/mounting/dimensions:		verticel
	_	(shon-circuit current ik < 400 A)
Design of the fuse link / for short-circuit protection of the auxiliary switch • required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
Short-circuit:		
• at DC-13 / maximum	1/h	1,000
<ul> <li>at DC-12 / maximum</li> </ul>	1/h	1,000
<ul> <li>at AC-15 / maximum</li> </ul>	1/h	1,000
<ul> <li>at AC-14 / maximum</li> </ul>	1/h	1,000
at AC-12 / maximum	1/h	1,000
Frequency of operation		
• at DC	1/h	10,000
Off-load operating frequency <ul> <li>at AC</li> </ul>	1/h	10,000
<ul> <li>at 600 V / rated value</li> </ul>	А	0.26
<ul> <li>at 440 V / rated value</li> </ul>	A	0.5
<ul> <li>at 220 V / rated value</li> </ul>	А	1.2
<ul> <li>at 110 V / rated value</li> </ul>	А	3
<ul> <li>at 60 V / rated value</li> </ul>	А	4.7
<ul> <li>at 24 V / rated value</li> </ul>	A	10
<ul> <li>with 3 current paths in series / at DC-13</li> </ul>		
<ul> <li>at 600 V / rated value</li> </ul>	А	0.1
	А	0.2
<ul> <li>at 440 V / rated value</li> </ul>		

Approval		
RMRS / Russ Household and		
UL/CSA ratings:		
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600
Safety:related Parameter:		
B10 value / with high demand rate		
<ul> <li>according to SN 31920</li> </ul>		1,000,000
T1 value / for proof test interval or service life		
<ul> <li>according to IEC 61508</li> </ul>	а	20
Proportion of dangerous failures		
<ul> <li>with low demand rate / according to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate / according to SN 31920</li> </ul>	%	73
Failure rate (FIT value) / with low demand rate		
<ul> <li>according to SN 31920</li> </ul>	FIT	100
Product function / positively driven operation to IEC 60947-5-1		Yes
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, F http://support.automation.siemens.com/WW/view/en/3RH2131	-1BB40/all	
Image database (product images, 2D dimension drawings, http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfbe		





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