http://support.automation.siemens.com/WW/view/en/33238601&td=1

SIEMENS



Industry Automation and

Operating current		
• at AC-1 / at 400 V	А	22
<ul> <li>at 40 ℃ ambient temperature / rated value</li> </ul>	A	22
	А	20
<ul> <li>at 60 ℃ ambient temperature / rated value</li> </ul>	П	20
<ul> <li>at AC-2 / at 400 V / rated value</li> </ul>	А	16
<ul> <li>at AC-2 / at 400 V / rated value</li> <li>at AC-3 / at 400 V / rated value</li> </ul>	A	16
	A	11.5
at AC-4 / at 400 V / rated value	- A	11.5
<ul> <li>Operating current</li> <li>with 1 current path / at DC-1</li> </ul>		
<ul> <li>at 24 V / rated value</li> </ul>	А	20
<ul> <li>at 110 V / rated value</li> </ul>	A	2.1
	~	2.1
<ul> <li>with 2 current paths in series / at DC-1</li> </ul>	^	20
at 24 V / rated value	A	20
at 110 V / rated value	A	12
<ul> <li>with 3 current paths in series / at DC-1</li> </ul>		
<ul> <li>at 24 V / rated value</li> </ul>	A	20
<ul> <li>at 110 V / rated value</li> </ul>	A	20
<ul> <li>with 1 current path / at DC-3 / at DC-5</li> </ul>		
<ul> <li>at 24 V / rated value</li> </ul>	A	20
<ul> <li>at 110 V / rated value</li> </ul>	A	0.1
<ul> <li>with 2 current paths in series / at DC-3 / at</li> </ul>		
DC-5		
<ul> <li>at 24 V / rated value</li> </ul>	A	20
<ul> <li>at 110 V / rated value</li> </ul>	А	0.35
<ul> <li>with 3 current paths in series / at DC-3 / at</li> </ul>		
DC-5		
<ul> <li>at 24 V / rated value</li> </ul>	А	20
<ul> <li>at 110 V / rated value</li> </ul>	А	20
Service power		
<ul> <li>at AC-2 / at 400 V / rated value</li> </ul>	kW	7.5
<ul> <li>at AC-3 / at 400 V / rated value</li> </ul>	kW	7.5
<ul> <li>at AC-4 / at 400 V / rated value</li> </ul>	kW	5.5
Active power loss / per conductor / typical	W	2.2
Off-load operating frequency	4 /h-	40.000
• at AC	1/h	10,000
• at DC	1/h	10,000
Frequency of operation / at AC-1 / according to IEC 60947-6-2	1/h	1,000
Frequency of operation / at AC-2 / according to IEC	1/h	750
60947-6-2	.,	
Frequency of operation / at AC-3 / according to IEC	1/h	750
60947-6-2 Frequency of operation / at AC-4 / according to IEC	1/h	250
60947-6-2	1/11	200
Control circuit:	_	
Type of voltage / of the controlled supply voltage	_	AC
Control supply voltage / 1	-	
<ul> <li>at 50 Hz / for AC / rated value</li> </ul>	V	230
<ul> <li>at 60 Hz / for AC / rated value</li> </ul>	V	230
operating range factor control supply voltage rated	-	
value / of the magnet coil		
• at 50 Hz / for AC		0.81.1
• at 60 Hz / for AC		0.851.1

Apparent pull-in power / of the solenoid / for AC	V·A	37
Apparent holding power / of the solenoid / for AC	V-A	5.7
Inductive power factor		
<ul> <li>with the pull-in power of the coil</li> </ul>		0.8
<ul> <li>with the pull-in power of the coil</li> </ul>		0.25
Closing delay		
• at AC	ms	833
Opening delay		
at AC	ms	415
Arcing time	ms	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		0
Operating current / of the auxiliary contacts		
<ul> <li>at AC-12 / maximum</li> </ul>	A	10
• at AC-15		
• at 230 V	А	6
• at 400 V	А	3
• at DC-12		
• at 48 V	А	6
• at 60 V	А	6
• at 110 V	А	3
• at 220 V	А	1
• at DC-13		
• at 24 V	А	6
• at 48 V	А	2
• at 60 V	А	2
• at 110 V	А	1
• at 220 V	А	0.3
Short-circuit:		
Design of the fuse link	_	
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>		fuse gL/gG: 10 A
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
<ul> <li>with type of assignment 1 / required</li> </ul>		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
• at type of coordination 2 / required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A
Installation/mounting/dimensions:		

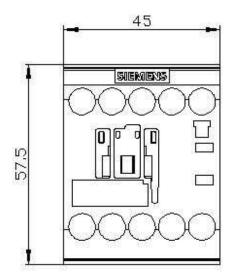
Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Type of fixing/fixation / series installation		Yes
Width	mm	45
Height	mm	57.5
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sidewards	mm	0
Distance, to be maintained, to earthed part / sidewards	mm	6

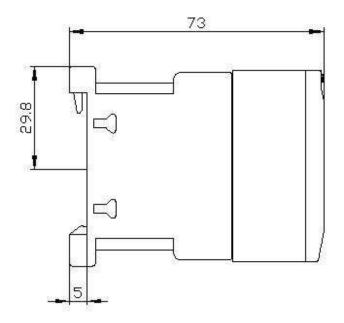
**Connections:** 

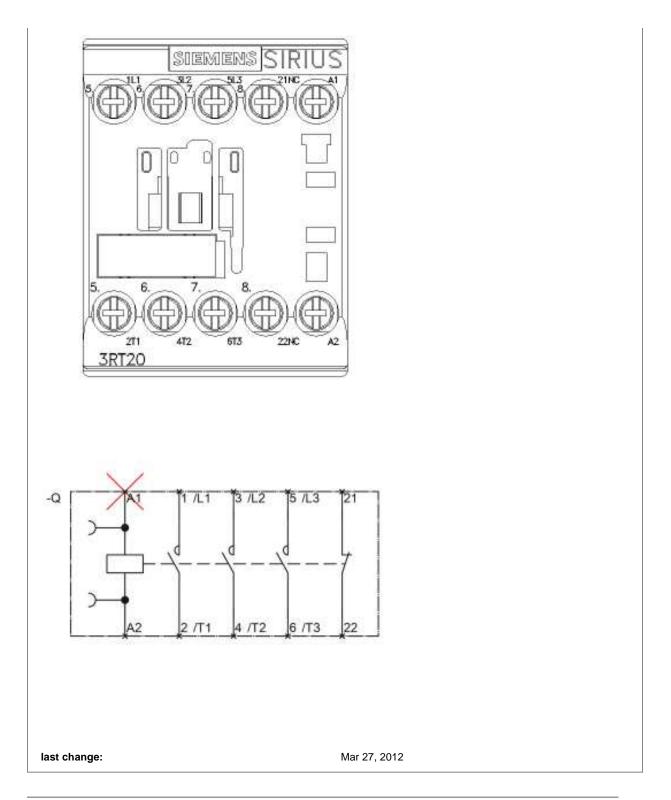
Design of the electrical connection

<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of the connectable conductor cross-section	
for main contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4
• solid	mm <sup>2</sup>
<ul> <li>finely stranded</li> </ul>	
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors / for main contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
<ul> <li>for auxiliary contacts</li> </ul>	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4
finely stranded	mm²
<ul> <li>with conductor end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors / for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
Certificates/approvals:	
General Product Approval	Declaration of Test Certificates Conformity
X CCC X CSA X GOST	UL EC-Declaration Special Test
Shipping Approval	
ABS (America X DNV / Det Nor: X GL / Germani	Image: LRS / Lloyds R     Image: PRS / Polski R     Image: RINA / Registre
Shipping other Approval	
RMRS / Russ Confirmation	
UL/CSA ratings:	
yielded mechanical performance (hp)	
<ul> <li>for single-phase squirrel cage motors</li> </ul>	
• at 110/120 V / rated value	hp 1
<ul> <li>at 230 V / rated value</li> </ul>	hp 2
<ul> <li>for three-phase squirrel cage motors</li> </ul>	
<ul> <li>at 200/208 V / rated value</li> </ul>	hp 3
<ul> <li>at 220/230 V / rated value</li> </ul>	hp 5
<ul> <li>at 460/480 V / rated value</li> </ul>	hp 10
<ul> <li>at 575/600 V / rated value</li> </ul>	hp 10
Operating current (FLA) / for three-phase squirrel cage motors	
at 480 V / rated value	A 14
<ul> <li>at 600 V / rated value</li> </ul>	A 11
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>	a 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		
<ul> <li>mirror contact to IEC 60947-4-1</li> </ul>		Yes
<ul> <li>positively driven operation to IEC 60947-5- 1</li> </ul>		No
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, FAQs,) http://support.automation.siemens.com/WW/view/en/3RT2018-1AP02/all		
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2018-1AP02		







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