# **SIEMENS**

Product data sheet 3RV1421-1EA10

CIRCUIT-BREAKER, 2.8...4 A N-RELEASE 82 A, SIZE SO TRANSFORMER PROTECTION, CL. 10, SCREW CONNECTION STANDARD BREAKING CAPACITY

General technical data:		
product brand name		SIRIUS
product designation		circuit breaker
Size of the circuit-breaker		S0
Trip class		CLASS 10
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Protection class IP / on the front		IP20
Ambient temperature		
during storage	°C	-50 +80
during operating	°C	-20 +70
during transport	°C	8050
Resistance against shock		25g / 11 ms
Insulation voltage / rated value	V	690
Impulse voltage resistance / rated value	V	6,000
Active power loss / total / typical	W	6
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		Q
according to DIN EN 61346-2		Q
Mechanical operating cycles as operating time / of the main contacts / typical		100,000
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
overload protection		Yes
phase disturbance recognition		Yes
Product component		
auxiliary switch		No
undervoltage release mechanism		No
trip indicator		No

Product extension / entianal / motor drive		No
Product extension / optional / motor drive		NU
Main circuit:		
Number of poles / for main current circuit		3
type of voltage		AC/DC
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	Α	4
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		front side
Adjustable response current		
of the non-delayed short-circuit release	Α	82 82
Adjustable response current		
of the current-dependent overload release	Α	2.8 4
Continuous current / rated value	Α	4
Product extension / auxiliary switch		Yes
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Number of change-over switches / for auxiliary contacts		0
Inputs/ Outputs:		
Number of digital inputs		0
Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	kA	100
• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	6
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Design of the overcurrent release and short-circuit release		thermomagnetic
Installation/mounting/dimensions:		
Built in orientation		any
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Width	mm	45
Height	mm	97
Depth	mm	96

Distance, to be maintained, to the ranks assembly		
• backwards	mm	0
• sidewards	mm	0
Product function / removable terminal for auxiliary and control circuit		No

Connections:		
Design of the electrical connection		
• for main current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²)
• stranded		2x (1 2.5 mm²), 2x (2.5 6 mm²)
• finely stranded		
<ul> <li>with conductor end processing</li> </ul>		2x (1 2.5 mm²), 2x (2.5 6 mm²)
• for AWG conductors / for main contacts		2x (14 10)
Conductor cross section that can be connected / for main contacts		
• solid	mm²	1 6
• stranded	mm²	1 6
• stranded wire		
<ul> <li>with conductor end processing</li> </ul>	mm²	1 6
AWG number / as coded connectable conductor cross-section		
• for main contacts		14 10

# Certificates/approvals:

### **General Product Approval**







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# **Test Certificates**

Special Test Certificate

### **Shipping Approval**







## other

Confirmation

Declaration of Conformity

other



# Safety:

Protection against electrical shock finger-safe

### 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**

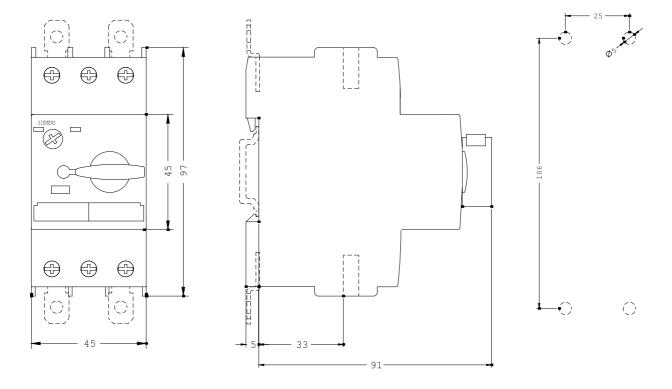
http://www.siemens.com/cax

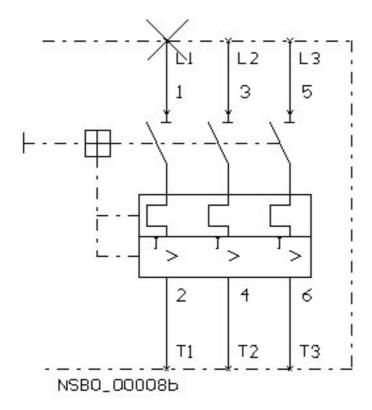
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RV1421-1EA10/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV1421-1EA10





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