## **SIEMENS**

Data sheet 3RU2116-0JC1



Overload relay 0.70...1.0 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	4.8 W
• per pole	1.6 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>in networks with ungrounded star point between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with ungrounded star point between main and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	440 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °C
during storage	-55 +80 °C
during transport	-55 +80 °C
temperature compensation	-40 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.7 1 A
operating voltage	
rated value	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1 A
operational current at AC-3e at 400 V rated value	1 A

0.25 kW 0.37 kW 0.55 kW  0.25 kW 0.37 kW 0.55 kW  integrated  for contacts  1 for contactor disconnection  1 for message "Tripped"  contacts  3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3
0.37 kW 0.55 kW  0.25 kW 0.37 kW 0.55 kW  integrated  ry contacts  1 for contactor disconnection  1 for message "Tripped"  contacts  0 ntacts at AC-15  3 A 3 A 3 A 3 A 3 A 2 A 1 A 0.75 A  intacts at DC-13  2 A 0.3 A 0.22 A 0.22 A 0.22 A
0.37 kW 0.55 kW  0.25 kW 0.37 kW 0.55 kW  integrated  ry contacts  1 for contactor disconnection  1 for message "Tripped"  contacts  0 ntacts at AC-15  3 A 3 A 3 A 3 A 3 A 2 A 1 A 0.75 A  ntacts at DC-13  2 A 0.3 A 0.22 A 0.22 A 0.22 A
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1 2 A 0.3 A 0.22 A 0.22 A
2 A 0.3 A 0.22 A 0.22 A
0.3 A 0.22 A 0.22 A
0.22 A 0.22 A
0.22 A
U.11 A
D000 / D000
-
CLASS 10
As a result
thermal
AC motor
AC motor 1 A
AC motor
AC motor 1 A
AC motor  1 A 1 A
AC motor 1 A
AC motor  1 A 1 A
AC motor  1 A 1 A
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A
AC motor  1 A 1 A 1 A e auxiliary switch required fuse gG: 6 A, quick: 10 A any
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm 45 mm
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm 45 mm
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm 45 mm 79 mm
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm 45 mm 79 mm
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm 45 mm 79 mm  rminal for auxiliary and No
AC motor  1 A 1 A 1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm 45 mm 79 mm  rminal for auxiliary and  No  spring-loaded terminals
AC motor  1 A 1 A 1 A  1 A  ne auxiliary switch required fuse gG: 6 A, quick: 10 A  any stand-alone installation 102 mm 45 mm 79 mm  rminal for auxiliary and  No  spring-loaded terminals spring-loaded terminals
AC motor  1 A 1 A 1 A  1 A  1 A  1 A  1 A  1 A
AC motor  1 A 1 A 1 A  1 A  1 A  1 A  1 A  1 A
AC motor  1 A 1 A 1 A  1 A  1 A  1 A  1 A  1 A
AC motor  1 A 1 A 1 A  1 A  1 A  1 A  1 A  1 A
B600 / R300  CLASS 10
0.11 A
0.22 A
0.22 A 0.22 A
0.22 A
0.22 A
0.22 A
0.22 A
0.11 A
0.11 A
0.11 A
0.11 A
0.11 A
D000 / D000
D000 / D000
Penn / Pann
s according to UI B600 / R300
s according to UL B600 / R300
CLASS 10
OLAGO 10
CLASS IU
CLASS 10
CLASS 10
OLAGO IV
thermal
thermal
AC motor
AC motor 1 A
AC motor  1 A 1 A

type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
Safety related data	
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
MTTF with high demand rate	2 280 a
IEC 61508	
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Slide switch
Approvals Certificates	
General Product Approval	







Confirmation





For use in hazardous locations

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report Special Test Certificate





Marine / Shipping

ĴÅ Dinv



LRS







**Miscellaneous** 

other

other

Railway

**Environment** 

Confirmation

Special Test Certificate



Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-0JC1

Cax online generator

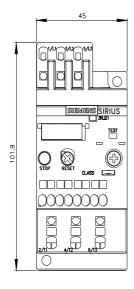
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RU2116-0JC1}$ 

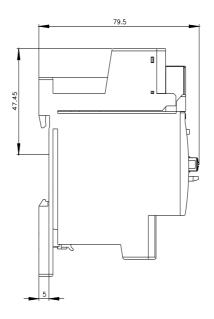
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

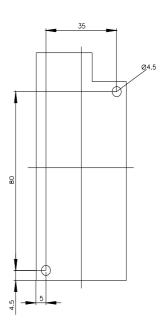
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0JC1

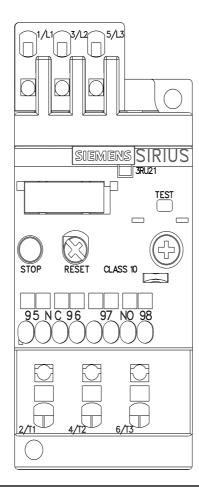
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

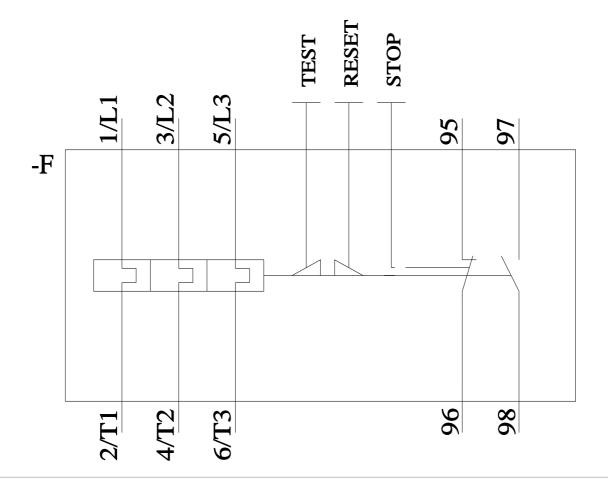
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2116-0JC1&lang=en











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