



Overload relay, 4.5...6.3 A, For motor protection Size S00, Class 10 Contactor mounting Main circuit: screw terminal Auxiliary circuit: screw

Figure similar

product brand name	SIRIUS
product designation	Thermal overload relay
product type designation	3RU7
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] total typical	6.6 W
power loss [W] for rated value of the current at AC in hot operating state	6.6 W
• per pole	2.2 W
type of calculation of power loss current-dependent	quadratic
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
protection class IP	
• on the front	IP20
• of the terminal	IP20
shock resistance according to IEC 60068-2-27	8 g / 11 ms
Net Weight	0.13 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-20 ... +55 °C
• during transport	-25 ... +70 °C
relative humidity during operation	0 ... 90 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	4.5 ... 6.3 A
type of voltage for main current circuit	AC/DC
operating voltage rated value	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	6.3 A
Auxiliary circuit	
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 230 V	2 A
operational current of auxiliary contacts at DC-13 at 24 V	1 A
Protective and monitoring functions	

trip class	CLASS 10	
design of the overload release	thermal	
Short-circuit protection		
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A, quick: 10 A	
Installation/ mounting/ dimensions		
mounting position	with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	
fastening method	Contacting mounting	
height	87 mm	
width	45 mm	
depth	78 mm	
required spacing for grounded parts at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
<ul style="list-style-type: none"> for main current circuit for auxiliary and control circuit 	screw-type terminals screw-type terminals	
arrangement of electrical connectors for main current circuit	Top and bottom	
type of connectable conductor cross-sections for main contacts		
<ul style="list-style-type: none"> solid or stranded finely stranded with core end processing 	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x 4 mm ² 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)	
type of connectable conductor cross-sections for auxiliary contacts		
<ul style="list-style-type: none"> solid or stranded finely stranded with core end processing 	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)	
tightening torque		
<ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	0.8 ... 1.2 N·m 0.8 ... 1.2 N·m	
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	
Approvals Certificates		
Environment	General Product Approval	other

[Environmental Conformations](#)



other

[Confirmation](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RU7116-1GB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU7116-1GB0>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU7116-1GB0&lang=en

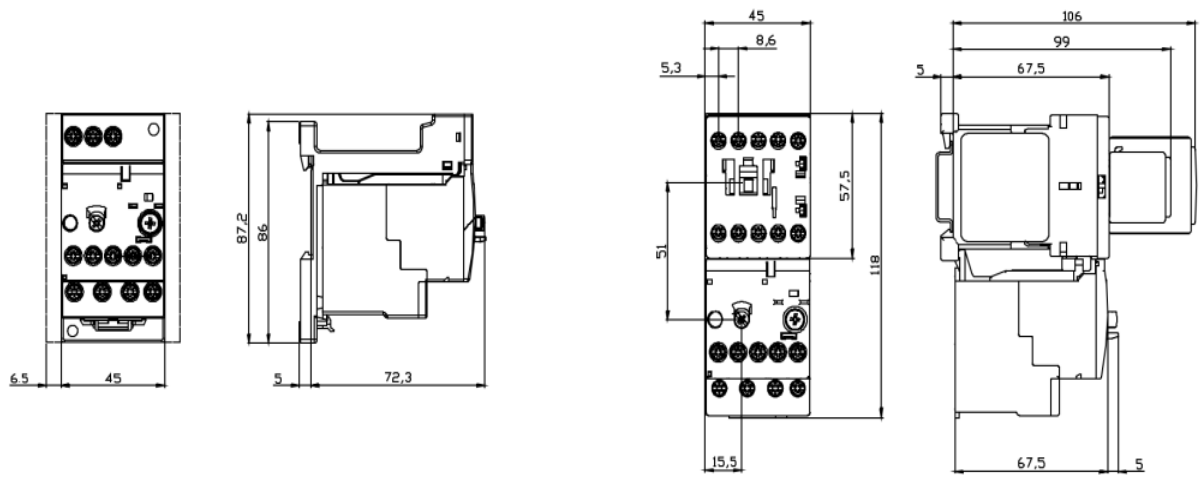
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU7116-1GB0>

Characteristic curves

3RU7116 Mounting with Stand-alone adaptor

3RU7116 Mounting with contactor



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