SIEMENS

Data sheet 3RU7116-0AB0

Figure similar

Overload relay, 0.11...0.16 A, For motor protection Size S00, Class 10 Contactor mounting Main circuit: screw terminal Auxiliary circuit: screw

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	4.8 W
power loss [W] for rated value of the current at AC in hot operating state	
●	4.8 W
● per pole	1.6 W
type of calculation of power loss depending on pole	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	8g / 11 ms
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	0.11 ... 0.16 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	0.16 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

Subject to change without notice
© Copyright Siemens

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	Contactor 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	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections for main contacts	
● solid or stranded	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x 4 mm²
● finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
type of connectable conductor cross-sections for auxiliary contacts	
● solid or stranded	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
● finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
tightening torque	
● for main contacts with screw-type terminals	0.8 ... 1.2 N·m
● for auxiliary contacts with screw-type terminals	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

General Product Approval					other
UK CA	CE EG-Konf.	Confirmation	CCC	EAC	Confirmation

Environment

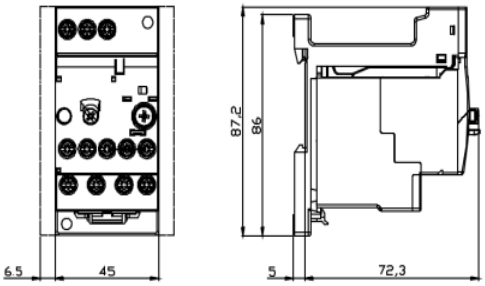
Environmental Confirmations

Further information

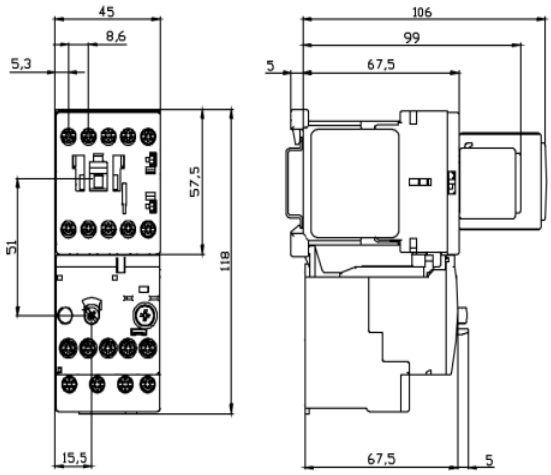
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU7116-0AB0
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU7116-0AB0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RU7116-0AB0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU7116-0AB0&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RU7116-0AB0/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU7116-0AB0&objecttype=14&gridview=view1

Subject to change without notice
© Copyright Siemens

3RU7116 Mounting with Stand-alone adaptor



3RU7116 Mounting with contactor



last modified: 10/22/2023

Subject to change without notice
© Copyright Siemens