SIEMENS

Data sheet

3RU2116-0HC1



Overload relay 0.55...0.80 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

nucleus hand nome				
product brand name	SIRIUS thermal overload relay			
product designation				
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 safe isolation in networks with grounded star point				
 between auxiliary and auxiliary circuit 	440 V			
 between auxiliary and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
shock resistance according to IEC 60068-2-27	8g / 11 ms			
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD			
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001			
reference code according to IEC 81346-2	F			
Substance Prohibitance (Date)	10/01/2009			
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	0.55 0.8 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	0.8 A
operational current at AC-3e at 400 V rated value	0.8 A
operating power	
• at AC-3	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 kW
• at AC-3e	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1
note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15 ● at 24 V	3 A
• at 24 V • at 110 V	
	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.3 A
• at 110 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.11 A
contact rating of auxiliary contacts according to UL	B600 / R300
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.8 A
at 600 V rated value	0.8 A
	0.8 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	102 mm
width	45 mm
depth	79 mm
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	
 for main current circuit 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	1x (0,5 4 mm²)

finally etra		aina					
finely stranded with core end processing			1x (0.5 2.5 mm ²)				
 finely stranded without core end processing at AWG cables for main contacts 			1x (0.5 2.5 mm ²)				
			1x (20 12)				
	conductor cross-section	ns					
 for auxiliary cor 				2)			
— solid or st			2x (0.5 2.5 mm ²)				
 finely stranded with core end processing finely stranded without core end processing 			2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
-		cessing	2x (0.5 1.5 mm ²)				
	for auxiliary contacts		2x (20 14)				
-	design of screwdriver shaft size of the screwdriver tip			Diameter 3 mm			
	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 y				
T1 value for proof tes IEC 61508	T1 value for proof test interval or service life according to IEC 61508						
protection class IP (60529	protection class IP on the front according to IEC			IP20			
touch protection on	the front according to I	EC 60529	finger-safe, for	r vertical cont	act from the front		
Display							
display version for sw	vitching status		Slide switch				
Certificates/ approval	ls						
						For use in hazard-	
General Product Ap	oproval					ous locations	
SP CM	<u>Confirmation</u>	رور ددد	(<mark>لل</mark>	EHC	IECEx	
For use in hazard- ous locations				ortificates			
	Declaration of Confor	mity	Test C	ertificates		Marine / Shipping	
K ATEX	UK CA	EG-Konf.	<u>Type T</u>	est Certific- est Report	Special Test Certific- ate	Marine / Shipping	
ATEX Marine / Shipping		CE	<u>Type T</u>	est Certific-			
Marine / Shipping		CE	<u>Type T</u>	est Certific-			
Marine / Shipping		CE	<u>Type T</u>	est Certific-			
BUREAU VERITAS	UK CA	EG-Konf.	<u>Type T</u>	est Certific-			
BUREAU VERITAS	UK CA	EG-Konf.	<u>Type T</u>	est Certific-			
BUREAU VERITAS	UK CA	EG-Konf.	<u>Type T</u>	est Certific-			

Further information

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=3RU2116-0HC1 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0HC1 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HC1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0HC1&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HC1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0HC1&objecttype=14&gridview=view1

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