## SIEMENS

## Data sheet

## 3RU2116-0AB0



Overload relay 0.11...0.16 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

and the first discussion	
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
Weight	0.155 kg
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
<ul> <li>during transport</li> </ul>	-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	0.11 0.16 A
operating voltage	
rated value	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.16 A

operational current at AC 3e at 400 V rated value	0.16 A
operational current at AC-3e at 400 V rated value	0.10 A
operating power	
• at AC-3	0.04 IAM
— at 400 V rated value	0.04 kW
— at 500 V rated value	0.06 kW
— at 690 V rated value	0.06 kW
• at AC-3e	
— at 400 V rated value	0.04 kW
— at 500 V rated value	0.06 kW
— at 690 V rated value	0.06 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 110 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A
• at 690 V	0.75 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
	0.22 A
• at 125 V	
• at 125 V • at 220 V	0.11 A
• at 220 V	0.11 A
• at 220 V contact rating of auxiliary contacts according to UL	0.11 A
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions	0.11 A B600 / R300
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	0.11 A B600 / R300 CLASS 10
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release	0.11 A B600 / R300 CLASS 10
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings	0.11 A B600 / R300 CLASS 10
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.11 A B600 / R300 CLASS 10 thermal
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value	0.11 A B600 / R300 CLASS 10 thermal
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value	0.11 A B600 / R300 CLASS 10 thermal
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value Short-circuit protection	0.11 A B600 / R300 CLASS 10 thermal
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor         at 480 V rated value         at 600 V rated value Short-circuit protection design of the fuse link         or short-circuit protection of the auxiliary switch required	0.11 A B600 / R300 CLASS 10 thermal 0.2 A 0.2 A
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at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value Short-circuit protection design of the fuse link     o for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	0.11 A B600 / R300 CLASS 10 thermal 0.2 A 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
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<ul> <li></li></ul>	type of connectable con	nductor cross-section	IS				
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<ul> <li></li></ul>				2x (0	.5 1.5 mm²). 2x (0.75	2.5 mm <sup>2</sup> )	
<ul> <li>e. Well cables for auxiliary contacts</li> <li>24 (20 16), 24 (18 14)</li> <li>Uptoring contacts with screw type terminals</li> <li>08 12 N m</li> <li>09 12 N m</li> <li>100 12 N m</li></ul>			sina				
type       0.0			lonig			2.0 mm /	
9.4.1.2 Nm     9.4.1.2 Nm       9.4.1.2 Nm     9.4.1.2 Nm       design of screwdriver shaft     9.4.1.2 Nm       design of the screw-type terminals     9.4.1.2 Nm       design of the screwdriver shaft     9.4.1.2 Nm       1.4 the screwdriver shaft     9.4.1.2 Nm       design of the screwdriver shaft     9.4.1.2 Nm       1.4 the screwdriver shaft     9.4.1.2 Nm       Perportion of descrewdriver shaft     9.4.1.2 Nm       1.4 the screwdriver shaft     9.4.1.2 Nm				2/ (2	o 10), 2x (10 11)		
0.8 an L2 Nm     0.8 an L2 Nm       design of screwdriver shaft     0.8 an L2 Nm       design of the final of the connection screw     M8       0.8 in the working of the final of the connection screw     M8       0.8 in the working of the final of the connection screw     M8       0.8 in the working of the final of the connection screw     M8       0.8 in the working of the final of the connection screw     M8       0.8 in the working of the final of the scoreding to SN 31920     50 %       0.8 in the working of the mark rate according to SN 31920     50 %       0.8 in the working of the final of the according to SN 31920     50 %       0.8 in the working of the final of the according to SEC 30 %     50 %       0.8 in the working of the final of the according to SEC 30 %     50 %       0.8 in the working of the final of the according to IEC 60525     Final of the working of the final according to IEC 60525       0.8 in the working of the final according to IEC 60525     Final of the working of the final according to IEC 60525       0.8 in the working of the final according to IEC 60525     Final of the working of the w		with screw_type termina	le	0.8	1.2 N·m		
design of screwdriver shaft     Diameter 5 6 mm       size of the screwdriver tip     Packtiv P2 2       every main contacts     M3       so of main contacts     M3       design of source     So of %       so of proof non descording to ND. Of Contact     So PTT       MTTF with high demand rate according to ND. Contact     So of %       stars of PTD on the font according to ND. Contact     Data contact from the font according to ND. Contact       display end control on the font according to ND. Contact     So of %       display end control on the font according to ND. Contact     So PT       display end control on the font according to ND. Contact     So PT       for use in hazardous locations     Confirmation       for use in hazardous locations </td <td></td> <td></td> <td></td> <td colspan="4"></td>							
size of the survey of the thread of the connection sorrew     Percention of the connection sorrew     M3       • If the auxiliary and ordinal contracts     M3       • Of the auxiliary and ordinal contracts     SO 55       • With low demand rate according to SN 13920     SO 55       • With low demand rate according to SN 13920     SO 56       • Off the auxiliary and ordinal contracts     SO 56       • With low demand rate according to SN 13920     SO 56       • Off the demand rate according to SN 13920     SO 56       • Off the demand rate according to SN 13920     SO 76       • Off the demand rate according to IEC     20 a       • Off the fination of the front according to IEC 00220     Trapersate, for vertical contact from the front       • Off the fination of the front according to IEC 00220     Trapersate, for vertical contact from the front       • Off the fination of the front according to IEC 00220     Trapersate, for vertical contact from the front       • Off the fination of the front according to IEC 00220     Trapersate, for vertical contact from the front       • Off the fination of the front according to IEC 00220     Trapersate, for vertical contact from the front       • Off fination     Side avdith       • Off finat	· · · · · · · · · · · · · · · · · · ·		linais				
design of the thread of the connection screw       M3         0.16 the value y and control contacts       M3         Strey related dats       50 %         Proportion of degrows fallers       50 %         0.16 the value data according to SN 31920       50 %         0.16 the value data according to SN 31920       50 %         101       50 %         101       50 %         101       50 %         101       50 %         101       50 %         101       50 %         101       50 %         101       50 %         101       50 %         101       101 %       60 m 10 %         102 more the interval or service life according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         102 more the ford according to IEC 60523       10 a         <							
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<ul> <li>with low demand rate according to \$N 31920</li> <li>90 %</li> <li>with high demand rate according to \$N 31920</li> <li>90 %</li> <li>90 %</li></ul>				_			
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billiou rate [FT] with low demand rate according to SN     60 FT       MTF with high demand rate     2 280 a       LEC 61080     2 280 a       T value     2 280 a       effor pool fest interval or service life according to EC     20 a       Electrical Safety     P20       protection class IP on the front according to EC 60529     IP20       Outprotection on the forta according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP on the front according to EC 60529     IP20       Outprotection class IP	with low demand rate according to SN 31920		50 %				
31920       View	<ul> <li>with high demand</li> </ul>	rate according to SN 37	1920	50 %			
IFC stroll T value store of test interval or service life according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 Testerior according to IEC 6052		w demand rate accord	ding to SN	50 FI	Т		
T1 value       20 a         First control test interval or service life according to IEC 60529       20 a         Protection class Pon the front according to IEC 60529       IP20         Couch protection on the front according to IEC 60529       IP20         Oraging       Image-safe, for vertical contact from the front         Image-safe, for vertical contact from the front       Image-safe, for vertical contact from the front         Image-safe, for vertical contact from the front       Image-safe, for vertical contact from the f	MTTF with high demand	d rate		2 280	) a		
<ul> <li>a for proof test interval or service life according to IEC</li> <li>b go a</li> <li>Electrical Side is IP on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection on the front according to IEC 60529</li> <li>f or protection</li>     &lt;</ul>	IEC 61508						
6100       Electrical Safety         Production class IP on the front according to IEC 60529       IP20         Output protection on the front according to IEC 60529       Ingersafe, for vertical contact from the front         Objective       Side switch         Approvals Confificatos       Side switch         Operation for switching status       Side switch         Approvals Confificatos       Confirmation         Operation for switching status       Miscellancous         Operation for switching status       Special Test Certificate         Operation for Shipping       Importantion         Operation for Shipping       Importantion         Operation for switching       Special Test Certificate         Operation for Shipping       Important	T1 value						
protection class IP on the front according to IEC 60529     IP20       Display     Giplay reside, for vertical contact from the front       Object     Silde switch       Approvals Certificates     Silde switch       Confirmation     Silde switch       Approvals Certificates     Confirmation       General Product Approval     Confirmation       For use in hazardous locations     Confirmation       Silde Switch     Special Test Certificates       Marine / Shipping     Miscellaneous       Silde Switch     Special Test Certificates       Miscellaneous     Special Test Certificates       Marine / Shipping     Special Test Certificates       Wiscellaneous     Special Test Certificates       Miscellaneous     Confirmation       Special Test Certificates     Special Test Certificates       Miscellaneous     Confirmation       Special Test Certificates     Special Test Certificates       Miscellaneous     Confirmation       Special Test Certificates     Environmental Constributions       Special Te		al or service life accord	ling to IEC	20 a			
protection class IP on the front according to IEC 60529     IP20       Display     figser-safe, for vertical contact from the front       Object     Silde switch       Approvals Certificates     Silde switch       Approvals Certificates     Confirmation       General Product Approval     Confirmation       For use in hazardous locations     Confirmation       Silde Switch     Marine / Shipping       Marine / Shipping     Special Test Certificates       Sildes     Special Test Certificates       Sildes     Special Test Certificates       Marine / Shipping     Special Test Certificates       Sildes     Special Test Certificates       Miscellaneous     Special Test Certificates       Marine / Shipping     Special Test Certificates       Sildes	Electrical Safety						
touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Ubplay version for switching status       Slide switch         Approvals Certificates       Confirmation         General Product Approval       Confirmation         Confirmation       Special Test Certificates         Marine / Shipping       Confirmation         Confirmation       Special Test Certificates	protection class IP on t	he front according to	IEC 60529	IP20			
Display       display version for switching status       Slide switch         Approvals Certificates       General Product Approval       Image: Confirmation of the second status of the sec				finge	r-safe, for vertical contact	from the front	
display version for switching status       Silde switch         Approvals Confificates       General Product Approval         General Product Approval       General Product Approval         GENERAL       General Product Approval         GENERAL       General Product Approval         GENERAL       General Product Approval         GENERAL       General Product Approvals         GENERAL       General Product Approvals         For use in hazardous locations       Test Certificates         Marine / Shipping       Miscellaneous         Special Test Certificate       Interference         Marine / Shipping       Juscellaneous         General       Railway         other       Railway         Miscellaneous       Special Test Certificate         Miscellaneous       Special Test Certificate         Miscellaneous       Confirmation         Special Test Certificate       Juscellaneous         Miscellaneous       Confirmation         Special Test Certificate       Juscellaneous         Confirmation       Special Test Certificate         Miscellaneous       Confirmation         Special Test Certificate       Environmental Contimations	-	-		Ū			
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Information- and Downloadcenter (Catalogs, Brochures,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-0AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0AB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0AB0

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

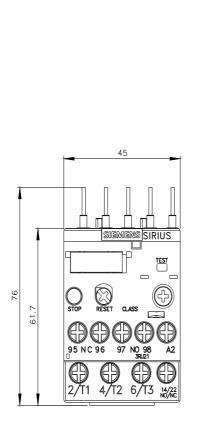
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2116-0AB0&lang=en

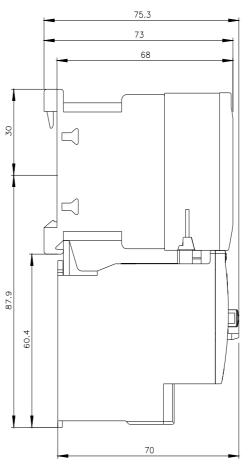
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

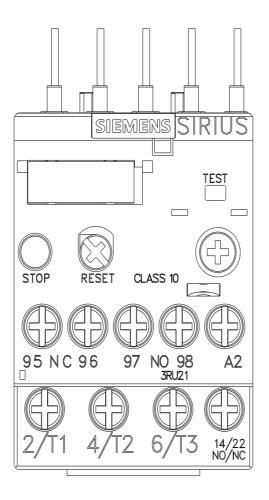
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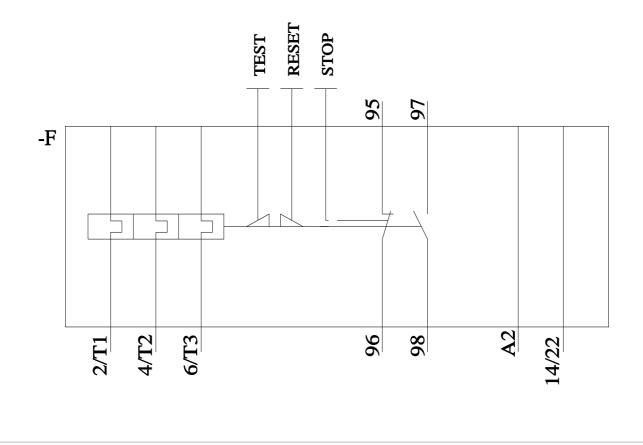
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0AB0&objecttype=14&gridview=view1









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