SIEMENS

Data sheet

3RR2142-1AW30



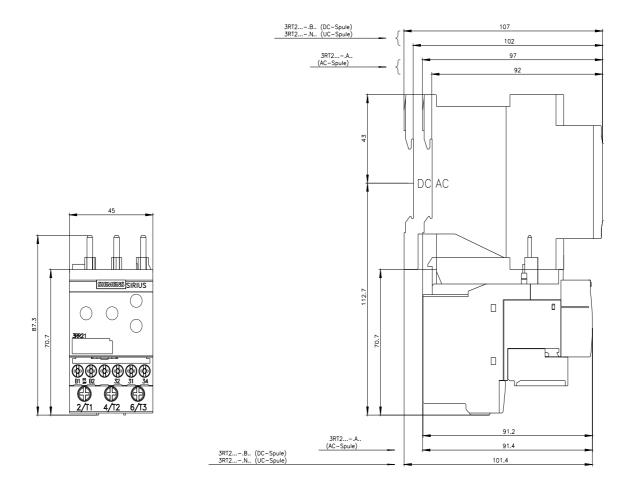
Monitoring relay, can be mounted to Contactor 3RT2, Size S0 basic, analog adjustment Apparent current monitoring 4...40 A, 50...60 Hz, 2-phase Supply 24-240 V AC/DC 1 change-over contact Monitoring for Current overshoot and undershoot Phase failure, Cable break with or without fault buffer ON delay 0-60 s Noise pulse suppression 0-30 s Switching hysteresis 6% Screw connection system

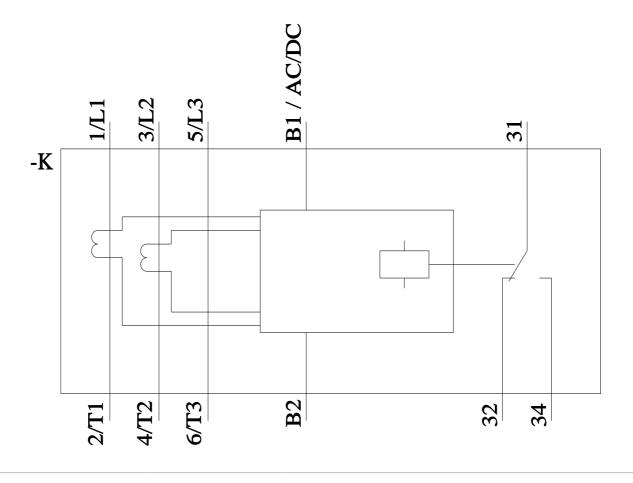
2 0/15					
product brand name	SIRIUS				
product designation	Monitoring relays				
design of the product	analogically adjustable, 2-phase current monitoring				
product type designation	3RR2				
General technical data					
size of contactor can be combined company-specific	SO				
operating apparent power rated value	4 VA				
insulation voltage for overvoltage category III according to IEC 60664					
 with degree of pollution 3 rated value 	690 V				
surge voltage resistance rated value	6 kV				
consumed current at 24 V	90 mA				
protection class IP					
on the front	IP20				
of the terminal	IP20				
shock resistance	15g / 11 ms				
vibration resistance	10 55 Hz / 0.35 mm				
mechanical service life (operating cycles) typical	10 000 000				
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000				
reference code according to IEC 81346-2	К				
relative repeat accuracy	2 %				
Substance Prohibitance (Date)	10/01/2009				
Supply voltage					
type of voltage of the supply voltage	AC/DC				
supply voltage 1 at AC					
• at 50 Hz	24 240 V				
• at 60 Hz	24 240 V				
supply voltage 1 at DC	24 240 V				
supply voltage frequency 1	50 60 Hz				
Measuring circuit					
type of current for monitoring	AC				
adjustable current response value current					
• 1	4 40 A				
• 2	4 40 A				
adjustable response delay time					
when starting	0 60 s				
with lower or upper limit violation	0 30 s				
Precision					
temperature drift per °C	0.1 %/°C				

Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary	fuse gG: 4 A
switch required	
Communication/ Protocol	
protocol is supported IO-Link protocol	No
type of voltage supply via input/output link master	No
Auxiliary circuit	
number of CO contacts	
 for auxiliary contacts 	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 230 V	3 A
• at 400 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
contact rating of auxiliary contacts according to UL	B300 / R300
Main circuit	
operating power rated value	2.5 W
ampacity of the semiconductor output in SIO mode	20 mA
operational current at 17 V minimum	5 mA
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	ambience A (industrial sector)
Connections/ Terminals	
product component removable terminal for main circuit	No
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	
 solid or stranded 	1 10 mm²
 finely stranded with core end processing 	2.5 10 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
- finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section for main contacts	16 8
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	direct mounting
height	87 mm
width	45 mm
depth	91 mm
required spacing	
• with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 for grounded parts 	
— forwards	6 mm

- backwards			0 mm				
— upwards			6 mm				
— at the side			6 mm				
— downwards			6 mm				
 for live parts 							
— forwards			6 mm				
— backwards			0 mm				
				6 mm			
— downwards	— upwards						
				6 mm			
— at the side			6 mm				
Ambient conditions							
installation altitude at height a	bove sea level max	imum	2 000 m				
ambient temperature							
 during operation 			-25 +60 °C				
 during storage 			-40 +80 °C				
Certificates/ approvals							
General Product Approval					EMC		
	Confirmation				A		
(SP		(m)	(ŲL)	F HI	<i>I</i> ΩΛ		
		<u> </u>	Ŷ	LIIL			
CSA			00		I.G.M		
Declaration of Conformity		Test Certificate	•	Marine / Shippi			
Declaration of Comornity		Test Certificate	5	warme / Smpph	ing		
		Special Test Ce	rtific- <u>Type Test Ce</u>	rtific-			
((UK	<u>ate</u>	ates/Test Re		Lloyds		
				1	Register		
EG-Konf.	СН			ABS	LRS		
Marine / Shipping			other				
	(Salad)	A STRICTUR AND	<u>Confirmati</u>	<u>on</u>			
	((****))	()					
355	RINA	DNV-GL					
PR3	SINA	Land Company					
Further information							
Siemens has decided to exit https://press.siemens.com/glo							
Siemens is working on the							
Please contact your local Sier				ou intend to import or offer t	o supply these products to an		
EAC relevant market (other th				·			
Information on the packagir							
https://support.industry.sieme Information- and Download							
https://www.siemens.com/ic10		biochures,)					
Industry Mall (Online orderi	ng system)						
https://mall.industry.siemens.c	com/mall/en/en/Cata	alog/product?mlfb=	3RR2142-1AW30				
Cax online generator		ordor/dofe.ult.com		12 1414/20			
http://support.automation.sien Service&Support (Manuals,				<u> 147130</u>			
https://support.industry.sieme							
Image database (product im							
				liagrams, EPLAN macros,)		
http://www.automation.siemer			nodels, device circuit o 2142-1AW30⟨=en	diagrams, EPLAN macros,)		

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RR2142-1AW30/manual





last modified:

8/10/2022 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RR21421AW30