## SIEMENS

## Data sheet

## 3RR2241-2FW30



Monitoring relay, can be mounted to Contactor 3RT2, Size S00 standard, digitally adjustable Apparant/active current monitoring 1.6-16 A, 20-400 Hz, 3-phase Supply 24-240 V AC/DC 1 change-over contact, 1 semiconductor output for alarm and warning Monitoring for Current overshoot and undershoot Phase failure, Cable break Phase sequence Residual current Blocking current Warning and alarm thresholds with or without fault buffer ON delay 0-99 s Noise pulse suppression 0-30 s Pause after fault 0-300 min spring-type connection system

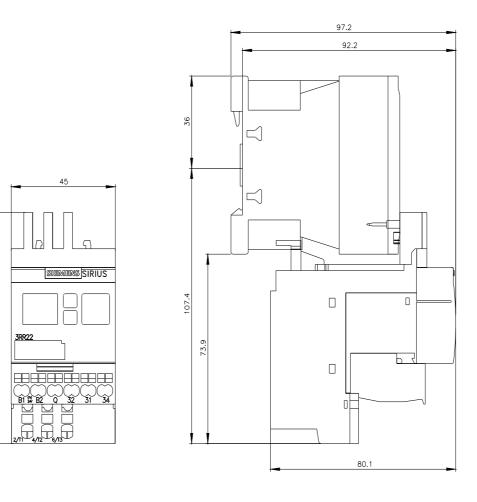
product brand name	SIRIUS			
product designation	Monitoring relays			
design of the product	digitally adjustable, 3-phase current monitoring			
product type designation	3RR2			
General technical data				
size of contactor can be combined company-specific	S00			
operating apparent power rated value	4 VA			
insulation voltage for overvoltage category III according to IEC 60664				
<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance rated value	6 kV			
consumed current				
• at 24 V	90 mA			
• at 240 V	12 mA			
protection class IP				
• on the front	IP20			
of the terminal	IP20			
shock resistance	15g / 11 ms			
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			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7			
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	1.6 16 A			
• 2	1.6 16 A			
adjustable response delay time				
when starting	0 99 s			

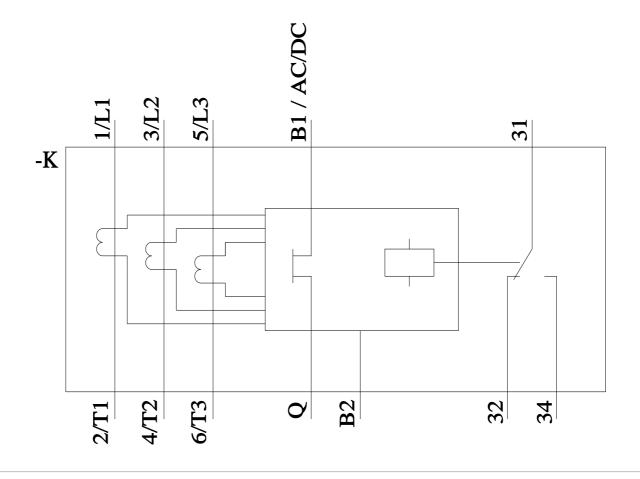
e with lower or upper limit violation	0 30 s
with lower or upper limit violation     adjustable switching hysteresis for measured current value	0.1 3 A
accuracy of digital display	+/-1 digit
Precision	·/- i digit
temperature drift per °C	0.1 %/°C
Short-circuit protection	0.1 /0/ 0
design of the fuse link for short-circuit protection of the auxiliary	fuse gG: 4 A
switch required	luse go. 4 A
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	
<ul> <li>for auxiliary contacts</li> </ul>	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	0.514
operating power rated value	2.5 W
ampacity of the semiconductor output at AC-14 at 240 V at 50/60 Hz	20 mA
ampacity of the semiconductor output at DC-13 at 240 V	20 mA
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)
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EMC immunity according to IEC 60947-1	
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		45 mm		
lepth		80 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		0		
— forwards		6 mm		
— backwards		0 mm		
— upwards — at the side		0 mm 6 mm		
— at the side — downwards		0 mm		
		0 mm		
<ul> <li>for live parts</li> <li>forwards</li> </ul>		6 mm		
— backwards		0 mm		
— upwards		0 mm		
— downwards		0 mm		
— at the side		6 mm		
mbient conditions		01111		
installation altitude at height above sea lo	evel maximum	2 000 m		
ambient temperature		2 000 111		
during operation		-25 +60 °C		
during storage		-40 +80 °C		
oprovals Certificates				
	EG-Konf.		UL	LIIL
EMV	Test Certificate	es	Marine / Shipping	
_				
KC RCM	<u>Special Test Ce</u> ate	ertific- <u>Type Test Certific</u> <u>ates/Test Report</u>		
RCM				
KC RCM Marine / Shipping		ates/Test Report	ABS	
RCM		ates/Test Report	Environmental Con-	
Marine / Shipping		ates/Test Report	Environmental Con-	
Marine / Shipping Marine / Shipping	ate	ates/Test Report	Environmental Con-	
Marine / Shipping Marine / Shipping	ate	other Confirmation	Environmental Con-	

https://support.industry.siemens.com/cs/ww/en/ps/3RR2241-2FW30 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RR2241-2FW30&lang=en Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RR2241-2FW30/manual





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