## 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
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 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
<ul> <li>with lower or upper limit violation</li> </ul>	0 30 s
adjustable switching hysteresis for measured current value	0.1 3 A

accuracy of digital display	+/ 1 digit
accuracy of digital display Precision	+/-1 digit
	0.4.9/190
temperature drift per °C	0.1 %/°C
Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gG: 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	
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	1A
• 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 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)
EMC immunity according to IEC 60947-1	ambience A (industrial sector)
Ewe minumity according to iEe 00047-1	and chock (industrial sector)
Connections/ Terminals	
	No
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and	
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit	No
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection	No Yes
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	No Yes spring-loaded terminals
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit	No Yes
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	No Yes spring-loaded terminals spring-loaded terminals
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid	No Yes spring-loaded terminals spring-loaded terminals 1x (0.5 4 mm <sup>2</sup> )
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts	No Yes spring-loaded terminals spring-loaded terminals
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing	No Yes spring-loaded terminals spring-loaded terminals 1x (0.5 4 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> )
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing	No Yes spring-loaded terminals spring-loaded terminals 1x (0.5 4 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> )
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely conductor cross-section for main contacts	No Yes spring-loaded terminals spring-loaded terminals 1x (0.5 4 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> )
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • solid or stranded	No           Yes           spring-loaded terminals           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           1x (0.5 2.5 mm²)           0.5 4 mm²
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • solid or stranded         • finely stranded with core end processing	No           Yes           spring-loaded terminals           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           1x (0.5 4 mm²)           0.5 4 mm²           2.5 2.5 mm²
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit       • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts       • solid         • finely stranded with core end processing       • finely stranded without core end processing         connectable conductor cross-section for main contacts       • solid or stranded         • solid or stranded       • finely stranded with core end processing         • finely stranded with core end processing       • finely stranded with core end processing	No           Yes           spring-loaded terminals           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           1x (0.5 4 mm²)           0.5 4 mm²           2.5 2.5 mm²
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • solid or stranded         • finely stranded with core end processing	No           Yes           spring-loaded terminals           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           1x (0.5 4 mm²)           0.5 4 mm²           2.5 2.5 mm²
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • solid or stranded         • finely stranded with core end processing         • finely stranded without core end processing         • for auxiliary contacts	No           Yes           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           1x (0.5 2.5 mm²)           0.5 4 mm²           2.5 2.5 mm²           0.5 2.5 mm²
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • solid or stranded         • finely stranded with core end processing         • solid or stranded         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded         • finely stranded with core end processing         • for auxiliary contacts         • for auxiliary contacts         - solid	No           Yes           spring-loaded terminals           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           1x (0.5 2.5 mm²)           0.5 4 mm²           2.5 2.5 mm²           0.5 4 mm²           1x (0.5 4 mm²)
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • solid or stranded         • finely stranded with core end processing         • finely stranded with core end processing         • solid or stranded         • finely stranded with core end processing         • for auxiliary contacts         - solid         - finely stranded with core end processing	No           Yes           spring-loaded terminals           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           1x (0.5 2.5 mm²)           0.5 4 mm²           2.5 2.5 mm²           0.5 4 mm²)           1x (0.5 4 mm²)           2x (0.5 4 mm²), 2x (0.5 2.5 mm²)
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> </ul> </li>	No         Yes         spring-loaded terminals         spring-loaded terminals         1x (0.5 4 mm²)         1x (0.5 2.5 mm²)         1x (0.5 4 mm²         2.5 2.5 mm²         0.5 4 mm²         2.5 2.5 mm²         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         2x (0.25 1.5 mm²)
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded without core end processing         • for auxiliary contacts         - solid         - finely stranded with core end processing         - finely stranded with core end processing         • for AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section for	No         Yes         spring-loaded terminals         spring-loaded terminals         1x (0.5 4 mm²)         1x (0.5 2.5 mm²)         1x (0.5 2.5 mm²)         0.5 4 mm²         2.5 2.5 mm²         0.5 4 mm²)         1x (0.5 4 mm²)         2x (0.25 1.5 mm²)         2x (0.25 1.5 mm²)         2x (0.25 1.5 mm²)         2x (24 16)
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         connectable conductor cross-section for main contacts         • solid or stranded         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded without core end processing         • for auxiliary contacts         - solid         - finely stranded with core end processing         - finely stranded without core end processing         - finely stranded without core end processing         - finely stranded	No Yes spring-loaded terminals spring-loaded terminals $1x (0.5 4 mm^2)$ $1x (0.5 2.5 mm^2)$ $1x (0.5 2.5 mm^2)$ $0.5 4 mm^2$ $2.5 2.5 mm^2$ $0.5 2.5 mm^2$ $1x (0.5 4 mm^2), 2x (0.5 2.5 mm^2)$ $2x (0.25 1.5 mm^2)$ $2x (0.25 1.5 mm^2)$ 2x (24 16) 20 12
Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> <li>type of connectable conductor cross-sections for main contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> </ul> </li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for Auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>tightening torque with screw-type terminals</li>	No Yes spring-loaded terminals spring-loaded terminals $1x (0.5 4 mm^2)$ $1x (0.5 2.5 mm^2)$ $1x (0.5 2.5 mm^2)$ $0.5 4 mm^2$ $2.5 2.5 mm^2$ $0.5 2.5 mm^2$ $1x (0.5 4 mm^2), 2x (0.5 2.5 mm^2)$ $2x (0.25 1.5 mm^2)$ $2x (0.25 1.5 mm^2)$ 2x (24 16) 20 12
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded with core end processing         • for auxiliary contacts         - solid         - finely stranded with core end processing         • for auxiliary contacts         - solid         - finely stranded with core end processing         • for AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section for main contacts         tightening torque with screw-type terminals         Installation/ mounting/ dimensions	No         Yes         spring-loaded terminals         spring-loaded terminals         1x (0.5 4 mm²)         1x (0.5 2.5 mm²)         1x (0.5 2.5 mm²)         0.5 4 mm²         2.5 2.5 mm²         0.5 4 mm²)         1x (0.5 4 mm²)         2x (0.5 1.5 mm²)         2x (0.25 1.5 mm²)         2x (0.25 1.5 mm²)         2x (24 16)         20 12         0.8 1.2 N·m
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         • solid or stranded         • finely stranded with core end processing         • for auxiliary contacts         — solid         — finely stranded with core end processing         • for auxiliary contacts         — solid         — finely stranded with core end processing         • for AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section for main contacts         tightening torque with screw-type terminals         Installation/ mounting/ dimensions         mounting position	No         Yes         spring-loaded terminals         1x (0.5 4 mm²)         1x (0.5 2.5 mm²)         1x (0.5 2.5 mm²)         0.5 4 mm²         2.5 2.5 mm²         0.5 4 mm²)         2.5 2.5 mm²         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         2x (0.25 1.5 mm²)         2x (0.25 1.5 mm²)         2x (24 16)         20 12         0.8 1.2 N·m
Connections/ Terminals         product component removable terminal for main circuit         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections for main contacts         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded with core end processing         • for auxiliary contacts         - solid         - finely stranded with core end processing         • for auxiliary contacts         - solid         - finely stranded with core end processing         • for AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section for main contacts         tightening torque with screw-type terminals         Installation/ mounting/ dimensions         mounting position         fastening method	No           Yes           spring-loaded terminals           spring-loaded terminals           1x (0.5 4 mm²)           1x (0.5 2.5 mm²)           0.5 4 mm²           2.5 2.5 mm²)           0.5 2.5 mm²           0.5 2.5 mm²           2.5 2.5 mm²           2.5 2.5 mm²           2.5 2.5 mm²           2.5 2.5 mm²           0.5 2.5 mm²           0.8 1.5 mm²)           2x (0.25 1.5 mm²)           2x (24 16)           20 12           0.8 1.2 N·m           any           direct mounting

required spacing					
<ul> <li>with side-by-side</li> </ul>	emounting				
- forwards		0 m	m		
- backwards		0 m	m		
— upwards		0 m	m		
- downwards	3	0 m	m		
— at the side		0 m	m		
<ul> <li>for grounded particular</li> </ul>	ts				
— forwards		6 m	m		
- backwards		0 m	m		
— upwards		0 m	m		
— at the side		6 m	m		
- downwards	6	0 m	m		
<ul> <li>for live parts</li> </ul>					
- forwards		6 m	m		
- backwards		0 m	m		
— upwards		0 m	m		
- downwards	3	0 m	m		
— at the side		6 m	m		
mbient conditions					
installation altitude at h	eight above sea level max	kimum 2 00	00 m		
ambient temperature					
<ul> <li>during operation</li> </ul>		-25	+60 °C		
<ul> <li>during storage</li> </ul>		-40	+80 °C		
pprovals Certificates					
General Product App	roval			EMC	Declaration of Con
					formity
	<b>Confirmation</b>			<b>A</b>	
( <b>m</b> )		(ŲL)	L H I	I A A	ŪK
<u> </u>			LIIL	يد	
ccc		UL		RCM	
Declaration of Con-	Test Certificates		Marine / Shipping		
formity					
	Special Test Certific-	Type Test Certific-	and an		BERT
CE	ate	ates/Test Report		Lloyds	(33)
			A ALLER A	register	
EG-Konf.			ABS	LRS	PRS
Marine / Shipping		other			
		Confirmation			
	And the second s	Commation			
	DNV-GL				
RINA	DAVOLICISMON				
urther information					
Siemens has decided	to exit the Russian mar				
https://press.siemens.c	om/global/en/pressrelease	e/siemens-wind-down-ru	ssian-business		
Siemens has decided https://press.siemens.c Siemens is working c	om/global/en/pressrelease n the renewal of the cur	e/siemens-wind-down-ru rent EAC certificates.		nd to import or offer to su	pply these products to a
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Siemens has decided https://press.siemens.c Siemens is working of Please contact your loo EAC relevant market (of Information on the pa https://support.industry Information- and Dow https://www.siemens.c Industry Mall (Online https://mall.industry.sie Cax online generator	om/global/en/pressrelease n the renewal of the current cal Siemens office on the source other than the sanctioned be ckaging .siemens.com/cs/ww/en/vi mloadcenter (Catalogs, bo om/ic10 ordering system)	e/siemens-wind-down-ru rent EAC certificates. status of validity of the E/ EAEU member states Ru iew/109813875 Brochures,)	AC certification if you inte Issia or Belarus). 2241-2FW30		pply these products to a

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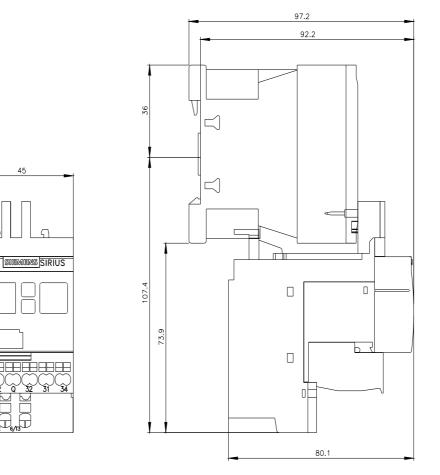
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RR2241-2FW30&lang=en Characteristic: Derating

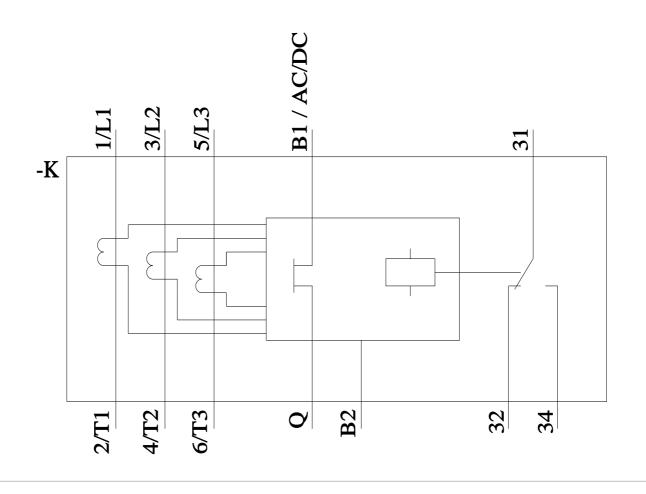
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