## SIEMENS

## Data sheet

## 3RR2243-3FW30

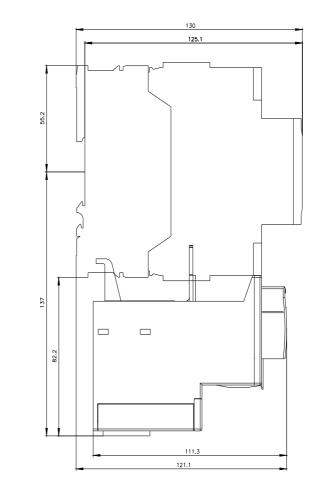


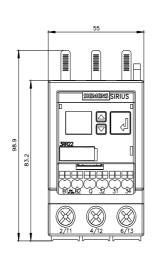
Monitoring relay, can be mounted to Contactor 3RT2, Size S2 standard, digitally adjustable Apparant/active current monitoring 8...80 A, 20...400 Hz, 3-phase Supply 24-240 V AC/DC 1 change-over contact, 1 semiconductor output for alarm and warning Monitoring for Current overshoot and undershoot Phase 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

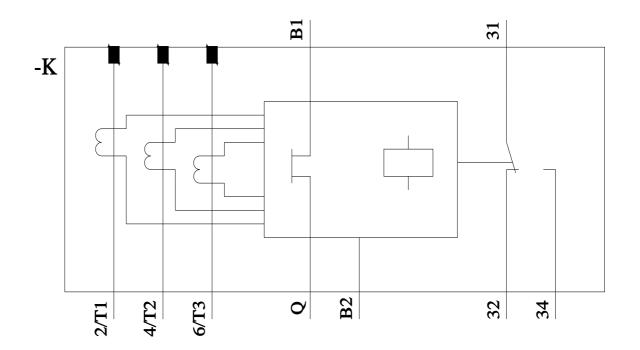
6/13		
product brand name	SIRIUS	
product designation	Monitoring relays	
design of the product	digitally adjustable, 3-phase current monitoring	
product type designation	3RR2	
General technical data		
size of contactor can be combined company-specific	S2	
operating apparent power rated value	4 VA	
insulation 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	IP00	
shock resistance	10g / 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	8 80 A	
• 2	8 80 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	0.2 16 A	
accuracy of digital display	+/-1 digit	
Precision		

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	3A
• 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	20 mA
50/60 Hz	
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)
Connections/ Terminals	
product component removable terminal for main circuit	No
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 35 mm²), 1x (1 50 mm²)
• stranded	2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
solid or stranded	1 50 mm <sup>2</sup>
finely stranded with core end processing	1 35 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
11-1	
— solid	1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16)
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>tightening torque with screw-type terminals</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16)
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>tightening torque with screw-type terminals</li> <li>Installation/ mounting/ dimensions</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1 0.8 1.2 N·m
<ul> <li>finely stranded with core end processing         <ul> <li>finely stranded without 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         tightening torque with screw-type terminals         </li> <li>Installation/ mounting/ dimensions         mounting position</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1 0.8 1.2 N·m
<ul> <li>finely stranded with core end processing         <ul> <li>finely stranded without 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         tightening torque with screw-type terminals         </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> </ul> </li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1 0.8 1.2 N·m any direct mounting
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>tightening torque with screw-type terminals</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1 0.8 1.2 N·m any direct mounting 99 mm
<ul> <li>finely stranded with core end processing         <ul> <li>finely stranded without 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         <ul> <li>tightening torque with screw-type terminals</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position             <ul> <li>fastening method</li> <li>height</li> <li>width</li> </ul> </li> </ul></li></ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1 0.8 1.2 N·m any direct mounting 99 mm 55 mm
<ul> <li>finely stranded with core end processing         <ul> <li>finely stranded without 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         <ul> <li>tightening torque with screw-type terminals</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position             <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> </ul></li></ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1 0.8 1.2 N·m any direct mounting 99 mm
<ul> <li>finely stranded with core end processing         <ul> <li>finely stranded without 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         <ul> <li>tightening torque with screw-type terminals</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position             <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> </ul> </li> </ul></li></ul>	2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 18 1 0.8 1.2 N⋅m any direct mounting 99 mm 55 mm
<ul> <li>finely stranded with core end processing         <ul> <li>finely stranded without 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         <ul> <li>tightening torque with screw-type terminals</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position             <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> </ul></li></ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 18 1 0.8 1.2 N·m any direct mounting 99 mm 55 mm

— backwards		0 mm		
— upwards		0 mm		
— downwards		10 mm		
— at the side		0 mm		
		0 mm		
<ul> <li>for grounded parts</li> </ul>				
— forwards		10 mm		
— backwards		0 mm		
— upwards		10 mm		
— at the side		10 mm		
— downwards		10 mm		
		10 mm		
<ul> <li>for live parts</li> </ul>				
— forwards		10 mm		
— backwards		0 mm		
— upwards		10 mm		
— downwards		10 mm		
— at the side		10 mm		
		10 11111		
Ambient conditions				
installation altitude at height above sea level ma	aximum	2 000 m		
ambient temperature				
during operation		-25 +60 °C		
during storage		-40 +80 °C		
		-40 +80 C		
Certificates/ approvals	_			
General Product Approval				EMC
CSA CCC		UL	EHL	RCM
Declaration of Conformity	Toot Cortificat	an Marina / Chinning		
Declaration of Conformity	Test Certificate	es Marine / Shipping		
	Special Test Ce		Lloyds	
CE UK			Lloyds Register	6
	Special Test Ce		Lloydis Register urs	PRS
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CE UK EG-Konf.	Special Test Ce ate	ertific-	Lloyds Register Lits	PRS
CE UK EG-Konf.	<u>Special Test Ce</u> ate	ertific-	Lloyds Register Lits	PRS
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