SIEMENS

Data sheet

3RR2141-2AA30

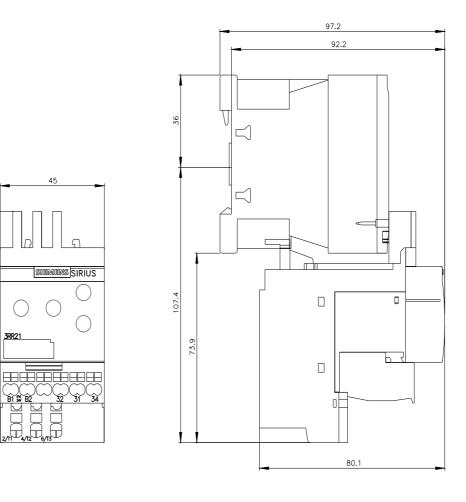


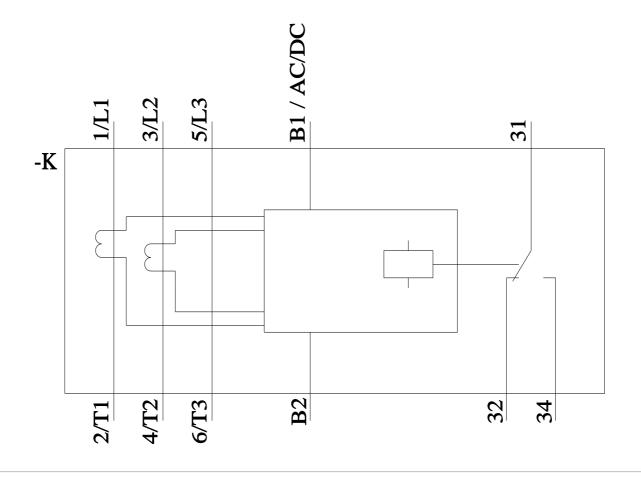
Monitoring relay, can be mounted to Contactor 3RT2, Size S00 basic, analog adjustment Apparent current monitoring 1.6-16 A, 20-400 Hz, 2-phase Supply 24 V AC/DC 1 change-over contact Monitoring for Current overshoot and undershoot Phase failure, Cable break with or without fault buffer ON delay 0-60 s Noise pulse suppression 0-30 s Switching hysteresis 6% spring-type connection system

product brand name SIRUS product designation Monitoring relays design of the product analogically adjustable, 2-phase current monitoring product type designation SRR2 enand taching data 4 size of contactor can be combined company-specific S00 operating apparent power rated value 4 insulation voltage for overvoltage category III according to 600 V swith degree of polition 3 rated value 600 V ow this degree of polition 3 rated value 61kV consumed current at 24 V 90 mA protection class IP IP20 • on the front IP20 • on the front IP20 • on the front IP20 • of the terminal IP20 reference code according to IEC 81346-2 K reference code according to IEC 81346-2 K relative repeat accuracy 2 % Substance Prohibitance (Date) 100/12009 SHP voltage AC/DC supply voltage 1 at AC at 60 Hz rated value • at 60 Hz rated value 24 V		
design of the product analogically adjustable, 2-phase current monitoring product type designation 3RR2 size of contactor can be combined company-specific \$00 operating apparent power rated value 4 VA insultation voltage for overvoltage category III according to IEC 60664 600 V e with degree of pollution 3 rated value 690 V e with degree of pollution 3 rated value 690 V e with degree of pollution 3 rated value 690 V e with degree of pollution 3 rated value 690 V e on the front IP20 • on the front IP20 • on the front IP20 • on the front 15g / 11 ms mechanical service life (operating cycles) typical 10000 000 electrical endurance (operating cycles) typical 1000000 electrical endurance (operating cycles) typical 1000000 substance Prohibitance (Date) 10001/2009 SWHC substance name Blei - 7439-92-1 Blei - 7439-92-1 Bleinonoxid (Bleioxid) - 1317-36-8 Supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V • at 50 Hz rated value 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V	product brand name	SIRIUS
product type designation 3RR2 General technical data	product designation	Monitoring relays
General technical data size of contactor can be combined company-specific \$00 operating apparent power rated value 4 VA insulation voltage for overvoltage category III according to IEC 60664 600 V surge voltage resistance rated value 600 V surge voltage resistance rated value 600 V consumed current at 24 V 90 mA protection class IP • • on the front IP20 • on the front IP20 shock resistance 15g / 11 ms mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 reference code according to IEC 81346-2 K relative repeat accuracy 2 % Substance Prohibitance (Date) 100/12009 SWHC substance name Biel-7339-2-1 Bielmonoxid (Bleloxid) - 1317-38-8 Supply voltage type of voltage of the supply voltage AC/IC C supply voltage 1 at AC 24 V • at 60 Hz rated value	design of the product	analogically adjustable, 2-phase current monitoring
size of contactor can be combined company-specific S00 operating apparent power rated value 4 VA insultation voltage for overvoltage category III according to 690 V • with degree of pollution 3 rated value 690 V surge voltage presistance rated value 6 kV consumed current at 24 V 90 mA protection class IP 6 • of the front IP20 • of the terminal IP20 shock resistance 15g/ 11 ms mechanical service life (operating cycles) typical 100 000 00 electrical endurance (operating cycles) typical 100 000 00 electrical endurance (operating cycles) typical 100 000 00 glectrical endurance (operating cycles) typical 100 000 00 glectrical endurance (operating cycles) typical 100 000 00 glectrical endurance (Operating cycles) typical 100 000 00 synply voltage 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei-7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage of the supply voltage AC/DC supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 1	product type designation	3RR2
operating apparent power rated value 4 VA insulation voltage for overvoltage category III according to IEC 6666 690 V surge voltage resistance rated value 690 V consumed current at 24 V 90 mA protection class IP 90 mA • on the front IP20 • of the terminal 1P20 shock resistance 15g / 11 ms mechanical service life (operating cycles) typical 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 vippical 100 000 erelative repeat accuracy 2 % Substance Prohibitance (Date) 100/1/2009 SVHC substance name Biei - 7439-92-1 Bieimonoxid (Bieloxid) - 1317-36-8 Supply voltage 4 vit 24 vite 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V • at 80 Hz rated value 24 V •	General technical data	
insulation voltage for overvoltage category III according to IEC 60664 690 V surge voltage resistance rated value 690 V consumed current at 24 V 90 mA protection class IP 6 • of 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) typical 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 reference code according to IEC 81346-2 K reference code according to IEC 81346-2 K substance Prohibitance (Date) 100/1/2009 SVHC substance name Biel - 7439-92-1 Biermonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 16 A • 1 16 A • 2 16 A adjustable current for monitoring AC • 1 16 A • 2 16 A • 2 16 A <td< th=""><th>size of contactor can be combined company-specific</th><th>S00</th></td<>	size of contactor can be combined company-specific	S00
IEC 60664 690 V • 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 IP20 • of 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) typical 10 0000 reference code according to IEC 81346-2 K reflative repeat accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei-7439-92-1 Blei Protocode 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V supply voltage 1 at AC 50 60 Hz	operating apparent power rated value	4 VA
surge voltage resistance rated value 6 kV consumed current at 24 V 90 mA protection class IP 90 mA • of 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) typical 100 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 generate accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage supply voltage AC/DC supply voltage of the supply voltage AC/DC supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V supply voltage f at DC rated value 24 V supply voltage f at DC rated value 24 V supply voltage f at DC rated value 24 V supply voltage f at DC rated value 24 V supply voltage f at DC rated value 24 V supply voltage f at DC rated value <		
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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 100 0000 typical 100 0000 reference code according to IEC 81346-2 K refative repeat accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage Supply voltage 1 at AC - • at 50 Hz rated value 24 V • at 50 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit - type of current for monitoring AC adjustable current response value current - <th>surge voltage resistance rated value</th> <th>6 kV</th>	surge voltage resistance rated value	6 kV
• 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 100 000 typical 100 000 reference code according to IEC 81346-2 K reference code according to IEC 81346-2 K substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage 1 at AC - • at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit - • 1 1.6 16 A • 2 1.6 16 A	consumed current at 24 V	90 mA
• 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 100 000 typical 100 000 reference code according to IEC 81346-2 K relative repeat accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage 1 at AC • at 50 Hz rated value 24 V • at 50 Hz rated value 24 V supply voltage 1 at DC rated value 24 V • at 60 Hz rated value 24 V supply voltage frequency 1 50 u 60 Hz Measuring circuit type of current for monitoring AC adjustable current response value current • 1 1.6 16 A adjustable response delay time • with lower or upper limit violation 0 30 s	protection class IP	
shock resistance 15g / 11 ms mechanical service life (operating cycles) typical 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 reference code according to IEC 81346-2 K relative repeat accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 16 16 A • 1 1.6 16 A • 2 1.6 16 A <td< th=""><th>• on the front</th><th>IP20</th></td<>	• on the front	IP20
mechanical service life (operating cycles) typical 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 100 000 reference code according to IEC 81346-2 K relative repeat accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage 1 at AC 4V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V • at 60 Hz rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 4C type of current for monitoring AC adjustable current response value current 1.6 16 A • 2 1.6 16 A • 1 60 s • 1 0 60 s • with lower or upper limit violation 0 30 s	of the terminal	IP20
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typical reference code according to IEC 81346-2 K relative repeat accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Biei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage of the supply voltage AC/DC supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 16 16 A • 1 1.6 16 A • 2 1.6 16 A • 2 0 60 s outen starting 0 60 s • when starting 0 60 s • with lower or upper limit violation 0 30 s	mechanical service life (operating cycles) typical	10 000 000
relative repeat accuracy 2 % Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage of the supply voltage AC/DC supply voltage 1 at AC • at 50 Hz rated value • at 50 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit tupe of current for monitoring adjustable current response value current 1 • 1 1.6 16 A • 2 1.6 16 A • 2 0 60 s • when starting 0 60 s • with lower or upper limit violation 0 30 s		100 000
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SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage AC/DC supply voltage 1 at AC at 50 Hz rated value 24 V at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit type of current for monitoring AC adjustable current response value current • 1 • 2 • 1 • 1 • 1 • 1 • 1 • 2 øulgistable response delay time • when starting • with lower or upper limit violation Precision	relative repeat accuracy	2 %
Bleimonoxid (Bleioxid) - 1317-36-8 Supply voltage type of voltage of the supply voltage supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit type of current for monitoring adjustable current response value current • 1 1.6 16 A • 2 1.6 16 A adjustable response delay time 0 60 s • when starting 0 60 s • with lower or upper limit violation 0 30 s	Substance Prohibitance (Date)	10/01/2009
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supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 4C type of current for monitoring AC adjustable current response value current 1.6 16 A • 1 1.6 16 A • 2 1.6 16 A adjustable response delay time 0 60 s • when starting 0 60 s • with lower or upper limit violation 0 30 s	Supply voltage	
• at 50 Hz rated value 24 V • at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 4C type of current for monitoring AC adjustable current response value current 1.6 16 A • 1 1.6 16 A • 2 1.6 16 A e 2 0 60 s • when starting 0 60 s • with lower or upper limit violation 0 30 s	type of voltage of the supply voltage	AC/DC
• at 60 Hz rated value 24 V supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 40 Hz type of current for monitoring AC adjustable current response value current 1.6 16 A • 1 1.6 16 A • 2 1.6 16 A adjustable response delay time 0 60 s • with lower or upper limit violation 0 30 s	supply voltage 1 at AC	
supply voltage 1 at DC rated value 24 V supply voltage frequency 1 50 60 Hz Measuring circuit 4C type of current for monitoring AC adjustable current response value current 1.6 16 A • 1 1.6 16 A • 2 1.6 16 A adjustable response delay time 0 60 s • when starting 0 60 s • with lower or upper limit violation 0 30 s	• at 50 Hz rated value	24 V
supply voltage frequency 1 50 60 Hz Measuring circuit AC type of current for monitoring AC adjustable current response value current	• at 60 Hz rated value	24 V
Measuring circuit AC type of current for monitoring AC adjustable current response value current 1.6 16 A • 1 1.6 16 A • 2 1.6 16 A adjustable response delay time 0 60 s • with lower or upper limit violation 0 30 s	supply voltage 1 at DC rated value	24 V
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when starting o 60 s with lower or upper limit violation 0 30 s Precision	• 2	1.6 16 A
with lower or upper limit violation O 30 s Precision	adjustable response delay time	
Precision	when starting	0 60 s
	 with lower or upper limit violation 	0 30 s
temperature drift per °C 0.1 %/°C	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	1000 go. + /
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
the at 250 V contact rating of auxiliary contacts according to UL	0.1 A B300 / R300
Main circuit	
operating power rated value	2.5 W
ampacity of the semiconductor output in SIO mode	2.5 W 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	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	1x (0.5 4 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²)
 finely stranded without core end processing 	1x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts	
solid or stranded	0.5 4 mm ²
finely stranded with core end processing	2.5 2.5 mm ²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	$4v(0.5 - 4mm^2) 2v(0.5 - 0.5mm^2)$
— solid	1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²)
 — finely stranded with core end processing — finely stranded without core end processing 	2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)
 Intely stranded without core and processing for AWG cables for auxiliary contacts 	2x (0.25 1.5 mm ⁻) 2x (24 16)
AWG number as coded connectable conductor cross section for main contacts	20 12
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	direct mounting
height	90 mm
width	45 mm
depth	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 mn	ı		
 for grounded part 	ts				
- forwards		6 mm	า		
- backwards		0 mm	า		
— upwards		0 mm	ı		
— at the side		6 mm	ı		
- downwards		0 mm	ı		
 for live parts 					
— forwards		6 mm	า		
— backwards		0 mm	า		
— upwards		0 mm	n		
— downwards		0 mm	n		
— at the side		6 mm	ı		
mbient conditions					
installation altitude at he	eight above sea level max	imum 2 000) m		
ambient temperature					
 during operation 		-25	+60 °C		
 during storage 			+80 °C		
pprovals Certificates		10			
					Declaration of Con
General Product Appr	roval			EMC	Declaration of Con- formity
Confirmation		~		^	
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	ccc	UL		RCM	EG-Konf.
Declaration of Con-					
formity	Test Certificates		Marine / Shipping		
formity		Type Test Certific-	Marine / Shipping		(PA)
formity	Special Test Certific- ate	Type Test Certific- ates/Test Report	Marine / Shipping	Lloyds	6
formity UK	Special Test Certific-		Marine / Shipping	Lloyd's Register	٢
formity	Special Test Certific-		Marine / Shipping	Lloyd's Register uts	PRS
formity UK	Special Test Certific-		۲	Llovd's Register uis	PRS
UK CA	Special Test Certific-	ates/Test Report	۲	Lloyd's Register uts	PRS
formity UK	Special Test Certific-		۲	Lloyd's Register uts	PRS
UK CA	Special Test Certific-	ates/Test Report	۲	Llovd's Register uts	PRS
UK CA	Special Test Certific-	ates/Test Report	۲	Llovd's Register uts	PRS
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formity UK CA Marine / Shipping	Special Test Certific- ate	ates/Test Report	۲	Llovd's Register uts	PRS
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