## SIEMENS

## Data sheet

## 3RR2241-1FA30



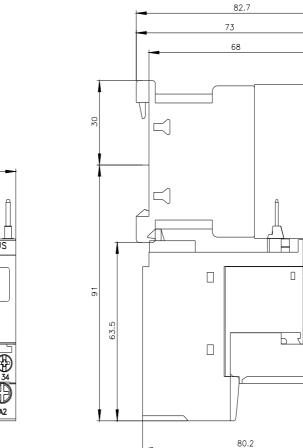
Monitoring relay, can be mounted to Contactor 3RT2, Size S00 standard, digitally adjustable Apparant/active current monitoring 1.6-16 A, 20-400 Hz, 3-phase Supply 24 V AC/DC 1 change-over contact, 1 semiconductor output for alarm and warning Monitoring for Current overshoot and undershoot Phase failure, 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 Screw connection system

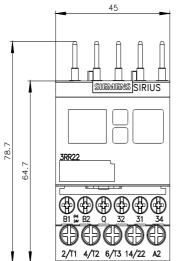
product brand name	SIRIUS
product designation	Monitoring relays
design of the product	digitally adjustable, 3-phase current monitoring
product type designation	3RR2
General technical data	
size of contactor can be combined company-specific	S00
operating apparent power rated value	4 VA
insulation voltage 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 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	1.6 16 A
• 2	1.6 16 A
adjustable response delay time	
when starting	0 99 s

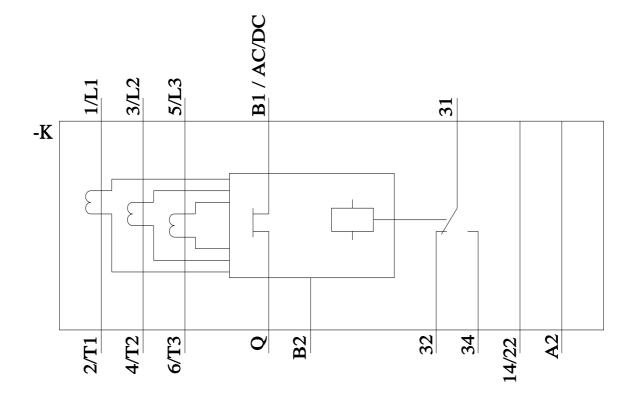
	000
with lower or upper limit violation	0 30 s
adjustable switching hysteresis for measured current value	0.1 3 A
accuracy of digital display Precision	+/-1 digit
	0.4.0/ /20
temperature drift per °C	0.1 %/°C
Short-circuit protection	for a Contract
design of the fuse link for short-circuit protection 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	
<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	
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 at DC-13 at 240 v	20 mA
operational current at 17 V minimum	5 mA
·	
Electromagnetic compatibility	
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	ambience A (industrial sector) ambience A (industrial sector)
EMC emitted interference according to IEC 60947-1	
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Connections/ Terminals	ambience A (industrial sector)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and	ambience A (industrial sector) No
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit	ambience A (industrial sector)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection	ambience A (industrial sector) No Yes
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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	ambience A (industrial sector) No Yes screw-type terminals
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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	ambience A (industrial sector) No Yes screw-type terminals
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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	ambience A (industrial sector) No Yes screw-type terminals screw-type terminals
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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	ambience A (industrial sector) No Yes screw-type terminals screw-type terminals 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x (1 4 mm <sup>2</sup> )
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • for auxiliary contacts • for auxiliary contacts	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for AWG cables for auxiliary contacts	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         2x (20 14)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         2x (20 14)         20 12
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • for auxiliary contacts • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts tightening torque with screw-type terminals	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         2x (20 14)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid — finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts tightening torque with screw-type terminals Installation/ mounting/ dimensions	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         2x (20 14)         20 12         0.8 1.2 N·m
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • 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	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         2x (20 14)         20 12         0.8 1.2 N·m         any
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • 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	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         2x (20 14)         20 12         0.8 1.2 N·m         any         direct mounting
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • 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 height	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         2x (20 14)         20 12         0.8 1.2 N·m         any         direct mounting         79 mm
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • 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 height width	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         2x (20 14)         20 12         0.8 1.2 N·m         any         direct mounting         79 mm         45 mm
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 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 connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • 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 height	ambience A (industrial sector)         No         Yes         screw-type terminals         screw-type terminals         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         0.75 4 mm²         0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         2x (20 14)         20 12         0.8 1.2 N·m         any         direct mounting         79 mm

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<ul> <li>for live parts</li> </ul>					
— downwards		0 mi	m		
— at the side		6 mi	m		
— upwards		0 mi	m		
- backwards		0 mi	m		
— forwards		0 mi	m		
<ul> <li>for grounded part</li> </ul>	S	0 111			
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— upwards	mounting	0 mi			

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