SIEMENS

Data sheet 3RR2143-3AA30



Monitoring relay, can be mounted to Contactor 3RT2, Size S2 basic, analog adjustment Apparent current monitoring 8...80 A, 50...60 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

SIRIUS		
Monitoring relays		
analogically adjustable, 2-phase current monitoring		
3RR2		
S2		
4 VA		
690 V		
6 kV		
90 mA		
IP20		
IP00		
10g / 11 ms		
10 55 Hz / 0.35 mm		
10 000 000		
100 000		
K		
2 %		
03/01/2017		
Supply voltage		
AC/DC		
24 V		
24 V		
24 V		
50 60 Hz		
AC		
8 80 A		
8 80 A		
0 60 s		
0 30 s		
0.1 %/°C		

Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary	fuse gG: 4 A
switch required	
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	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	O.F.W.
operating power rated value	2.5 W
ampacity of the semiconductor output in SIO mode	20 mA
operational current at 17 V minimum	5 mA
Electromagnetic compatibility	A (industrial and a)
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	No
product component removable terminal for main circuit	No Yes
product component removable terminal for auxiliary and control circuit	165
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	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 mm²), 1x (1 50 mm²)
 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 mm²
finely stranded with core end processing	1 35 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm²)
— finely stranded without core end processing	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts	2x (24 16)
AWG number as coded connectable conductor cross section for main contacts	18 1
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	direct mounting
height	99 mm
width	55 mm
depth	112 mm
required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	10 mm
— at the side	0 mm

 for grounded parts 		
— forwards	10 mm	
— backwards	0 mm	
— upwards	10 mm	
— at the side	10 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— backwards	0 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	10 mm	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-25 +60 °C	
 during storage 	-40 +80 °C	
Certificates/ approvals		
General Product Approval		EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate Type Test Certificates/Test Report





Marine / Shipping

other







Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RR2143-3AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RR2143-3AA30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

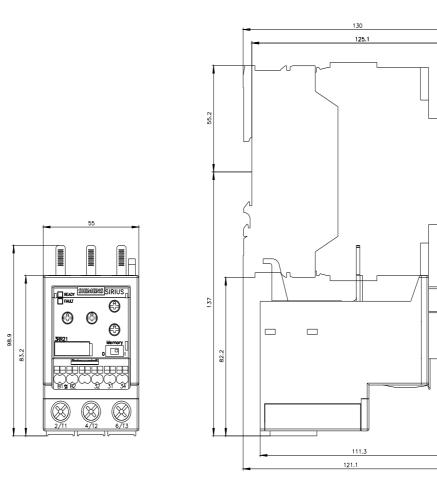
https://support.industry.siemens.com/cs/ww/en/ps/3RR2143-3AA30

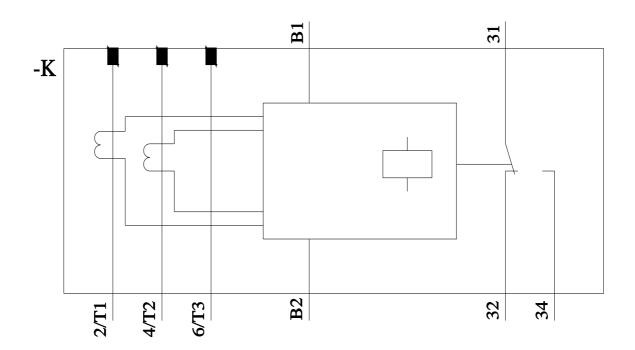
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RR2143-3AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RR2143-3AA30/manual





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