SIEMENS

Data sheet 3RR2143-3AW30



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 24-240 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	SIRIUS
product designation	Monitoring relays
design of the product	analogically adjustable, 2-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	
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	
• 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	K
relative repeat accuracy	2 %
Substance Prohibitance (Date)	03/01/2017
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 60 s
 with lower or upper limit violation 	0 30 s
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			
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







Marine / Shipping

other





Confirmation

Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RR2143-3AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RR2143-3AW30

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

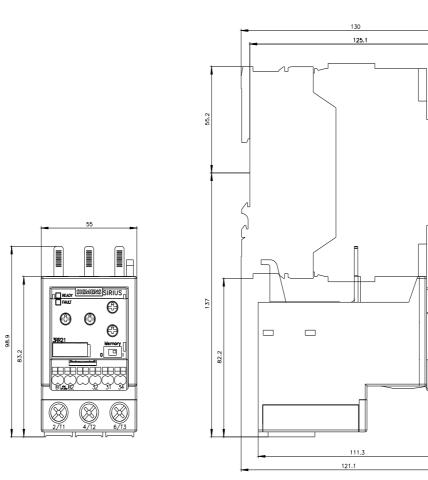
https://support.industry.siemens.com/cs/ww/en/ps/3RR2143-3AW30

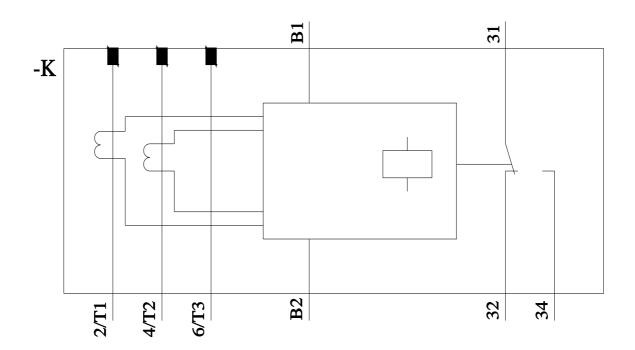
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RR2143-3AW30&lang=en

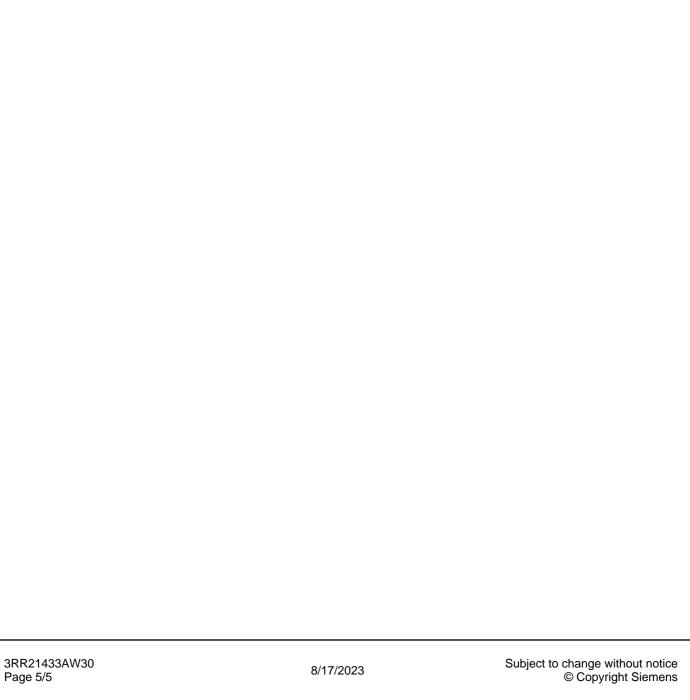
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RR2143-3AW30/manual





last modified: 8/10/2022 🖸



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RR21433AW30