SIEMENS

Data sheet

3RR2143-1AW30

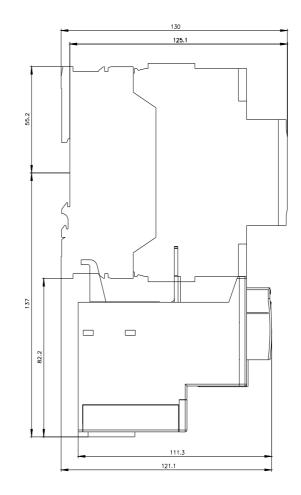


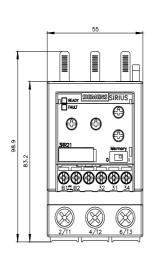
Monitoring relay, can be mounted to Contactor 3RT2, Size S2 basic, analog adjustment Apparent current monitoring 8...80 A, 50...60 Hz, 2-phase Supply 24-240 V AC/DC 1 change-over contact Monitoring for Current overshoot and undershoot Phase failure, Cable break with or without fault buffer ON delay 0-60 s Noise pulse suppression 0-30 s Switching hysteresis 6% Screw connection system

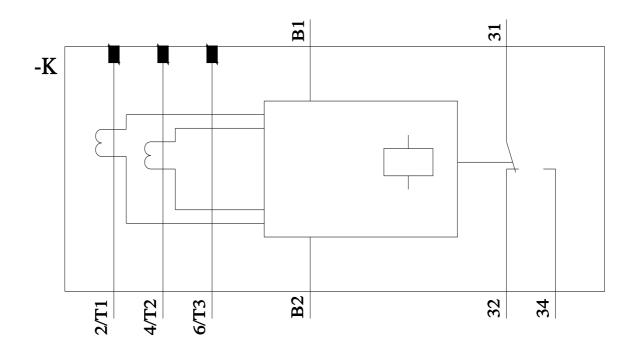
5/T3			
product brand name	SIRIUS		
product designation	Monitoring relays		
design of the product	analogically adjustable, 2-phase current monitoring		
product type designation	3RR2		
General technical data			
size of contactor can be combined company-specific	S2		
operating apparent power rated value	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		
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)	03/01/2017		
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7		
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	
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	
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	Yes
control circuit	
type of electrical connection	
 for main current circuit 	screw-type terminals
for auxiliary and control circuit	screw-type 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 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for auxiliary contacts	2x (20 14)
AWG number as coded connectable conductor cross section for main contacts	18 1
main contacts tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
	201/
fastening method	any direct mounting
height	99 mm
width	55 mm
depth	112 mm
required spacing	112 1000
 with side-by-side mounting — forwards 	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	10 mm
— at the side	0 mm

 for grounded part forwards backwards upwards at the side downwards for live parts forwards backwards backwards upwards backwards upwards at the side Monte and the side 	is eight above sea level max	10 m 0 m 10 n 10 n 10 n 10 n 10 n 10 n 10 n 10 n	m nm nm nm nm m nm			
ambient temperature	0					
 during operation 		-25	+60 °C			
 during storage 		-40	+80 °C			
Approvals Certificates						
General Product Appr	oval			EMC	Declaration of Con- formity	
<u>Confirmation</u>		U	EHC	RCM	UK CA	
Declaration of Con- formity	Test Certificates	Marine / Shipping				
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	ABS	Lloyd's Register uis	PRS	RINA	
Marine / Shipping	other					
DINV-GL	<u>Confirmation</u>					
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						
Cax online generator http://support.automatio Service&Support (Mar https://support.industry. Image database (prod	nens.com/mall/en/en/Cata n.siemens.com/WW/CAX nuals, Certificates, Chara siemens.com/cs/ww/en/ps uct images, 2D dimensio siemens.com/bilddb/cax_c	order/default.aspx?lang acteristics, FAQs,) s/3RR2143-1AW30 on drawings, 3D mode	=en&mlfb=3RR2143-1AW	_		







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