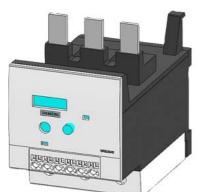
SIEMENS

Data sheet

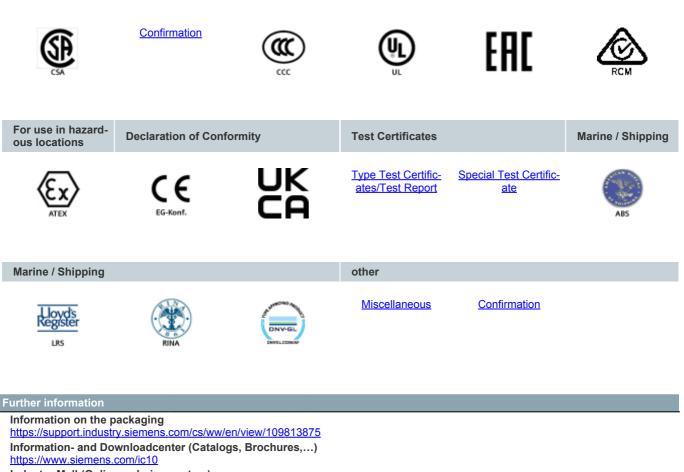
3RB2046-1UD0



Overload relay 12.5...50 A For motor protection Size S3, Class 10 Contactor mounting Main circuit: Screw terminal Auxiliary circuit: Springtype terminal Manual-Automatic-Reset III Phased-out product III Successor is SIRIUS 3RB3 Preferred successor type is >>3RB3036-1UD0<<

product brand name	SIRIUS
product designation	solid-state overload relay
General technical data	
size of contactor can be combined company-specific	S3
power loss [W] for rated value of the current at AC in hot operating state	0.05 W
• per pole	0.02 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
shock resistance	15g / 11 ms
type of protection	PTB 06 ATEX 3001 Ex II (2) GD
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	07/01/2006
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
 during transport 	-40 +80 °C
relative humidity during operation	100 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	12.5 50 A
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	4 A
• at 110 V	4 A
• at 120 V	4 A
• at 125 V	4 A
• at 230 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.55 A
• at 110 V	0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A

Protective and monitoring functions		
trip class	CLASS 10E	
Short-circuit protection		
 design of the fuse link for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 6 A	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	Contactor mounting	
height	106 mm	
width	70 mm	
depth	124 mm	
required spacing		
 with side-by-side mounting 		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
for grounded parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— at the side	6 mm	
— downwards	0 mm	
for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards — at the side	0 mm 6 mm	
	0 11111	
Connections/ Terminals	Vec	
product component removable terminal for auxiliary and control circuit	Yes	
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 (2.5 16 mm²)	
 stranded 	2x (10 50 mm²), 10 70 mm²	
 finely stranded with core end processing 	2x (2.5 35 mm²), 2.5 50 mm²	
type of connectable conductor cross-sections		
 for auxiliary contacts 		
— solid	2x (0.25 1.5 mm ²)	
— finely stranded with core end processing	2x (0.25 1.5 mm ²)	
at AWG cables for auxiliary contacts	2x (24 16)	
Electromagnetic compatibility		
conducted interference		
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of sever 3	ity
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3	
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3	
field-based interference according to IEC 61000-4-3	10 V/m	
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge	
Certificates/ approvals		
General Product Approval	EMC	



Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB2046-1UD0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2046-1UD0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB2046-1UD0

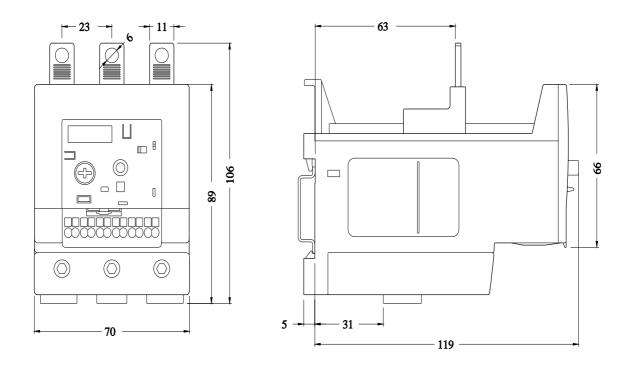
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2046-1UD0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RB2046-1UD0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2046-1UD0&objecttype=14&gridview=view1



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