SIEMENS

Data sheet

3RB3016-1PE0



Overload relay 1...4 A Electronic For motor protection Size S00, Class 10E Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB3
General technical data	
size of overload relay	\$00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	0.1 W
• per pole	0.03 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
 in networks with ungrounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with ungrounded star point between main and auxiliary circuit 	600 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
shock resistance	15g / 11 ms
according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
thermal current	4 A
recovery time after overload trip	
 with automatic reset typical 	3 min
with remote-reset	0 min
with manual reset	0 min
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
Weight	0.219 kg
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
temperature compensation	-25 +60 °C
relative humidity during operation	10 95 %
/ain circuit	
number of poles for main current circuit	3

adjustable current response value current of the current-	14A
dependent overload release	
operating voltage	
rated value	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	4 A
operational current at AC-3e at 400 V rated value	4 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	0.37 1.5 kW
 for AC motors at 500 V at 50 Hz 	0.37 2.2 kW
 for AC motors at 690 V at 50 Hz 	0.55 3 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1
note	for message "tripped"
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	
Protective and monitoring functions trip class	CLASS 10E
	CLASS 10E electronic
trip class	
trip class design of the overload release	
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Environmental Con- firmations	RCM		For use in haza	EG-Konf. ard- Test Certificates Special Test Certific-		ABS
Environment Environmental Con- firmations urther information	RCM	KC	For use in haza ous locations	EG-Konf. ard- Test Certificates Special Test Certific-		ABS
Environmental Con- firmations	Marine / Shipping	KC	For use in haza ous locations	EG-Konf. ard- Test Certificates Special Test Certific-		ABS
Environmental Con- firmations	Marine / Shipping	KC	For use in haza ous locations	EG-Konf. ard- Test Certificates Special Test Certific-		ABS
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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)

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https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3016-1PE0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3016-1PE0

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

t.industry.siemens.com/cs/ww/en/ps/3RB3016-1PEC https://supp

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3016-1PE0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-1PE0/char

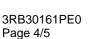
Further characteristics (e.g. electrical endurance, switching frequency)

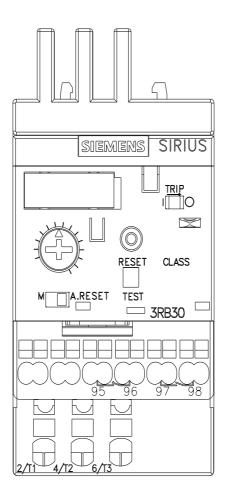
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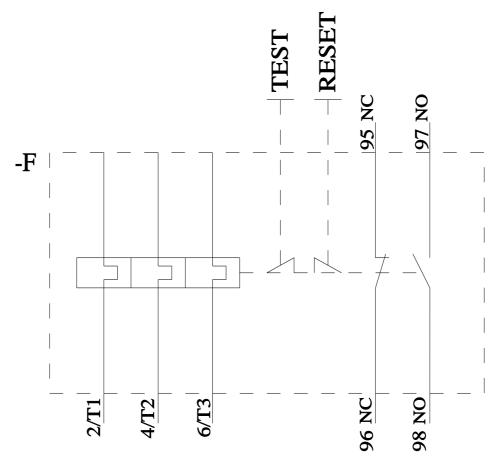
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