SIEMENS

Data sheet

3RB3016-2SB0



Overload relay 3...12 A Electronic For motor protection Size S00, Class 20E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS			
product designation	solid-state overload relay			
product type designation	3RB3			
General technical data				
size of overload relay	S00			
size of contactor can be combined company-specific	S00			
power loss [W] for rated value of the current at AC in hot operating state	0.6 W			
per pole	0.2 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			
thermal current	12 A			
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	0.227 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 %			
Main circuit				
number of poles for main current circuit	3			
adjustable current response value current of the current- dependent overload release	3 12 A			
operating voltage				
rated value	690 V			
 at AC-3e rated value maximum 	690 V			

onerating frequency rated value	50 60 Hz
operating frequency rated value	50 60 Hz 12 A
operational current rated value	
operational current at AC-3e at 400 V rated value	12 A
operating power	
for 3-phase motors at 400 V at 50 Hz	1.5 5.5 kW
• for AC motors at 500 V at 50 Hz	1.5 5.5 kW
• for AC motors at 690 V at 50 Hz	2.2 7.5 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	
trip class	CLASS 20E
design of the overload release	electronic
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	12 A
• at 600 V rated value	12 A
contact rating of auxiliary contacts according to UL	B600 / R300
Short-circuit protection	
design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 50 A, RK5: 45 A
— with type of assignment 2 required	gG: 50 A, J: 45 A
• for short-circuit protection of the auxiliary switch required	fuse gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	79 mm
width	45 mm
depth	73 mm
Connections/ Terminals	
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	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections for main contacts	
• solid	1x (0.5 4 mm²), 2x (0.5 1.5 mm²), 2x (0.75 4 mm²)
 solid or stranded 	TX (0,5 4 HIHF), 2X (0,5 1,5 HIHF), 2X (0,75 4 MM [*])
	1x (0,5 4 mm ²), 2x (0,5 1,5 mm ²), 2x (0,75 4 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 2.5 mm ²)
• finely stranded with core end processing	1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)
• finely stranded with core end processing type of connectable conductor cross-sections	
• finely stranded with core end processing	

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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=3RB3016-2SB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3016-2SB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2SB0

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

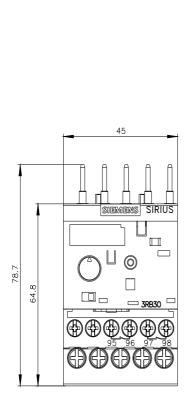
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3016-2SB0&lang=en

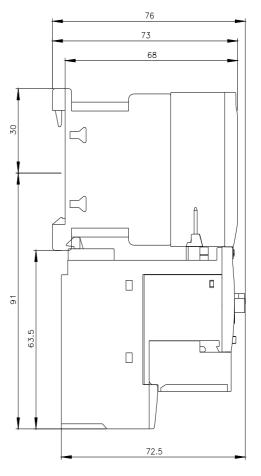
Characteristic: Tripping characteristics, I²t, Let-through current

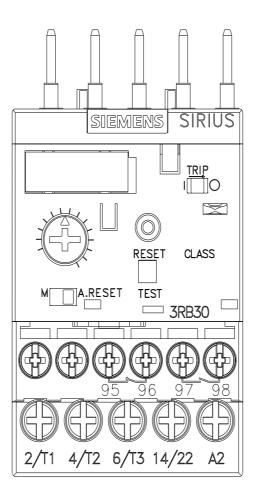
https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2SB0/char

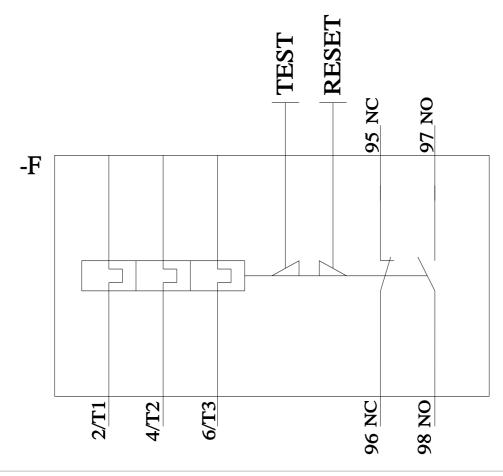
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3016-2SB0&objecttype=14&gridview=view1









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