SIEMENS

Data sheet

3RB3016-2NE0



Overload relay 0.32...1.25 A Electronic For motor protection Size S00, Class 20E Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

product brand name SIRIUS product designation 3RB3 Ceneral technical data 3RB3 size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating site. S00 • per pole 0.3 W insulation voltage with degree of pollution 3 at AC rated value 680 V value 600 V surge voltage resistance rated value 64 KV maximum permissible voltage for safe isolation in networks with grounded star point 600 V • between auxiliary and auxiliary circuit 300 V • between main and auxiliary circuit 300 V • between main and auxiliary circuit 600 V • between auxiliary and auxiliary circuit 600 V • between auxiliary and auxiliary circuit 500 V • between auxiliary and auxiliary circuit 500 V • between auxiliary and auxil					
product type designation 3RB3 Central technical data size of vertical relay S00 size of contactor can be combined company-specific power loss [VI] for rated value of the current at AC in hot operating state S00 operating state 0.1 W operating state 0.3 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 680 V use two en auxiliary and auxiliary circuit 300 V o between auxiliary and auxiliary circuit 300 V o between auxiliary and auxiliary circuit 300 V o between auxiliary and auxiliary circuit 600 V o between auxiliary and auxiliary circuit 500 V o between auxiliary and auxiliary circuit 500 V obstween auxiliary and auxiliary circuit 500 V store according to EC 6068-2-27 15g / 11 ms vibration resistance 15g / 11 ms type of protection according to ATEX directive 21 (2) G [Ex e] [Ex d] [Ex px]; Ex II (2) D [Ex t] [Ex p] 2014/2/4/EU PTE 09 ATEX 3001 2014/2/4/EU 20 00 m ambient temperature 40 +	product brand name	SIRIUS			
Concernit tochnical data size of overload relay S00 size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state S00 • per pole 0.03 W insulation voltage with degree of pollution 3 at AC rated value 6 kV surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation in networks with grounded star point 300 V • between auxiliary and auxiliary circuit 300 V • between main and auxiliary circuit 600 V • between according to ATEX directive 15g / 11 ms • according to IEC 60068-2-27 15g / 11 ms • direction 125A • type of protection according to ATEX directive 125 A • thermal current 126 A • diring operation </th <th>product designation</th> <th colspan="3">solid-state overload relay</th>	product designation	solid-state overload relay			
size of overload relay S00 size of contactor can be combined company-specific power loss (W) for rated value of the current at AC in hot orating state 0.1 W • per pole 0.03 W insultation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point 6 kV • between auxiliary and auxiliary circuit 300 V • between main and auxiliary circuit 300 V • between main and auxiliary circuit 600 V • between according to ATEX directive 15g / 11 ms. Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms • 125 A F • 1241/34/EU 0 / 100 / 12009 Ambient conditions 10 / 00 / 12009 • auri	product type designation	3RB3			
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2014/34/EU F reference code according to IEC 81346-2 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.32 1.25 A operating voltage 690 V		Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p]			
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 during storage during storage during transport <	ambient temperature				
 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 adjustable current response value current of the current-dependent overload release operating voltage rated value 690 V 	 during operation 	-25 +60 °C			
temperature compensation -25 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.32 1.25 A operating voltage 690 V	 during storage 	-40 +80 °C			
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value 690 V 	 during transport 	-40 +80 °C			
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.32 1.25 A operating voltage 690 V	temperature compensation				
number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.32 1.25 A operating voltage • rated value 690 V	relative humidity during operation	10 95 %			
adjustable current response value current of the current-dependent overload release 0.32 1.25 A operating voltage 690 V	Main circuit				
current-dependent overload release operating voltage • rated value 690 V	number of poles for main current circuit	3			
rated value 690 V		0.32 1.25 A			
	operating voltage				
at AC-3e rated value maximum 690 V	 rated value 	690 V			
	 at AC-3e rated value maximum 	690 V			

operating frequency rated value	50 60 Hz
operational current rated value	1.25 A
operational current at AC-3e at 400 V rated value	1.25 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	0.12 0.37 kW
 for AC motors at 500 V at 50 Hz 	0.12 0.55 kW
 for AC motors at 690 V at 50 Hz 	0.18 0.75 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	1.25 A
 at 600 V rated value 	1.25 A
contact rating of auxiliary contacts according to UL	D000 / D000
somation rating of auxiliary contacts according to OL	B600 / R300
	B600 / R300
Short-circuit protection	B600 / K300
Short-circuit protection design of the fuse link	B600 / K300
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 35 A, RK5: 6 A
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	gG: 35 A, RK5: 6 A gG: 6 A
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 35 A, RK5: 6 A
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch	gG: 35 A, RK5: 6 A gG: 6 A
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	gG: 35 A, RK5: 6 A gG: 6 A
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes spring-loaded terminals
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes spring-loaded terminals spring-loaded terminals
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes spring-loaded terminals spring-loaded terminals
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes Spring-loaded terminals spring-loaded terminals Top and bottom
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes Spring-loaded terminals spring-loaded terminals Top and bottom 1x (0.5 4 mm ²)
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid - solid or stranded	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes Spring-loaded terminals spring-loaded terminals Top and bottom 1x (0.5 4 mm ²) 1x (0,5 4 mm ²)
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid - solid - solid or stranded - finely stranded with core end processing	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes Spring-loaded terminals spring-loaded terminals Top and bottom $1x (0.5 4 mm^2)$ $1x (0.5 4 mm^2)$ $1x (0.5 2.5 mm^2)$
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 Aany Contactor mounting 72 mm 45 mm 90 mmYesYes $spring-loaded terminalsspring-loaded terminalsTop and bottom1x (0.5 4 mm²)1x (0.5 4 mm²)1x (0.5 2.5 mm²)1x (0.5 2.5 mm²)$
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid - solid - solid or stranded - finely stranded with core end processing	gG: 35 A, RK5: 6 A gG: 6 A fuse gG: 6 A any Contactor mounting 72 mm 45 mm 90 mm Yes Spring-loaded terminals spring-loaded terminals Top and bottom $1x (0.5 4 mm^2)$ $1x (0.5 4 mm^2)$ $1x (0.5 2.5 mm^2)$

	randed nded with core end process nded without core end proce for auxiliary contacts er shaft ver tip on the front according to the front according to IE tocol oly via input/output link m patibility	sing 2x eessing 2x 1x Dia Po IEC IP: C 60529 fin	ger-safe, for vertical conta	act from the front	
	 due to burst according to IEC 61000-4-4 			nal ports) corresponds	
61000-4-5	or-earth surge according to		2 kV (line to earth) corresponds to degree of severity 3		
61000-4-5	or-conductor surge accordi	-	1 kV (line to line) corresponds to degree of severity 3		
61000-4-6			10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz		
	field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2			V air discharge	
Display	0		5	5	
display version for sw	vitching status	Sli	de switch		
Certificates/ approval	s				
General Product Ap	oproval				EMC
SA CSA	<u>Confirmation</u>	CCC		EAC	RCM
For use in hazard- ous locations	Declaration of Conform	nity	Test Certificates		Marine / Shipping
KEx ATEX	UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS
Marine / Shipping					
BUREAU VERITAS	Lloyd's Register uts	PRS	RINA	RMRS	CINV-GL DINV-GL DINV-GL
other					
Confirmation					

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

90.2

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3016-2NE0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3016-2NE0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2NE0

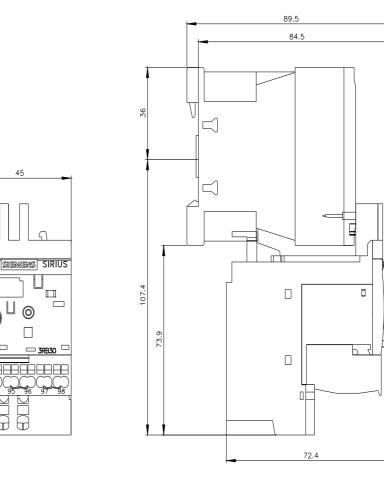
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3016-2NE0&lang=en

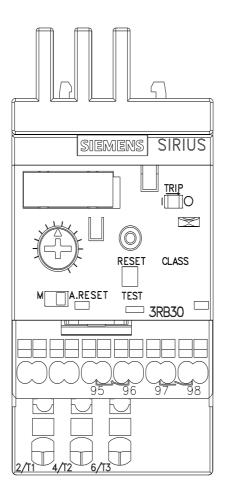
Characteristic: Tripping characteristics, I²t, Let-through current

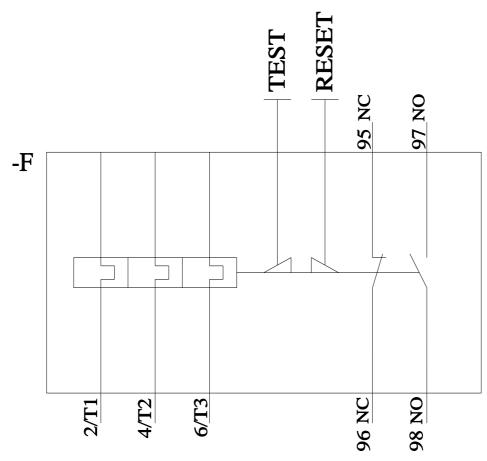
https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2NE0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3016-2NE0&objecttype=14&gridview=view1







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