SIEMENS

Data sheet

3RB3046-1XD0

Overload relay 32...115 A Electronic For motor protection Size S3, Class 10E Contactor mounting Main circuit: Screw 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	S3		

Size of overload relay	33
Size of contactor can be combined company-specific	S3
Power loss [W] for rated value of the current	
 at AC in hot operating state 	4.6 W
 at AC in hot operating state per pole 	1.53 W
Insulation voltage with degree of pollution 3 at AC rated value	1 000 V
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
 in networks with grounded 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 grounded star point between main and auxiliary circuit 	600 V

 in networks with grounded star point between main and auxiliary circuit 	690 V		
protection class IP on the front	IP20		
Protection class IP of the terminal	IP00		
Shock resistance	8g / 11 ms		
• acc. to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g /		
	11 ms		
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles		
thermal current	115 A		
Recovery time			
 after overload trip with automatic reset typical 	3 min		
 after overload trip with remote-reset 	0 min		
 after overload trip with manual reset 	0 min		
Type of protection according to ATEX directive 2014/34/EU	Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p]		
Certificate of suitability according to ATEX directive 2014/34/EU	PTB 09 ATEX 3001		
Reference code acc. to DIN EN 81346-2	F		
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 pick-up value current of the current-	32 115 A		
dependent overload release			
Operating voltage	4 000 1/		
• rated value	1 000 V		
• at AC-3 rated value maximum	1 000 V		
Operating frequency rated value	50 60 Hz		
Operating current rated value	115 A		
Operating power			
• for three-phase motors at 400 V at 50 Hz	18.5 55 kW		
• for AC motors at 500 V at 50 Hz	22 75 kW		
• for AC motors at 690 V at 50 Hz	30 90 kW		
Auxiliary circuit			
Design of the auxiliary switch	integrated		

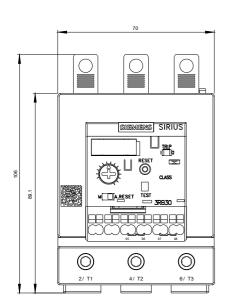
Note for contactor disconnection Number of NO contacts for auxiliary contacts 1 • Note for message "tripped" Number of OC contacts 0 • operating current of auxiliary contacts at AC-15 4 A at 10 V • Operating current of auxiliary contacts at AC-15 4 A at 12 V • Operating current of auxiliary contacts at AC-15 4 A • operating current of auxiliary contacts at AC-15 4 A at 12 V • Operating current of auxiliary contacts at AC-15 4 A • operating current of auxiliary contacts at AC-15 4 A at 12 V • Operating current of auxiliary contacts at AC-15 4 A • operating current of auxiliary contacts at AC-15 4 A at 22 V • Operating current of auxiliary contacts at DC-13 2 A • operating current of auxiliary contacts at DC-13 0.3 A at 10 V • operating current of auxiliary contacts at DC-13 0.3 A • operating current of auxiliary contacts at DC-13 0.3 A at 10 V • operating current of auxiliary contacts at DC-13 0.3 A at 20 V • Operating current of auxiliary contacts at DC-13 0.3 A at 20 V • Operating current of auxiliary contacts at DC-13 0.3 A at 10 V • operating current of auxiliary contacts at DC-13 0.3 A<	Number of NC contacts for auxiliary contacts	1
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• operating current of auxiliary contacts at AC-15 at 24 V 4 A • Operating current of auxiliary contacts at AC-15 at 110 V 4 A • Operating current of auxiliary contacts at AC-15 at 120 V 4 A • Operating current of auxiliary contacts at AC-15 at 220 V 4 A • Operating current of auxiliary contacts at AC-15 at 230 V 4 A • Operating current of auxiliary contacts at DC-13 at 24 V 2 A • Operating current of auxiliary contacts at DC-13 at 60 V 0.55 A • Operating current of auxiliary contacts at DC-13 at 60 V 0.3 A • Operating current of auxiliary contacts at DC-13 at 10 V 0.3 A • Operating current of auxiliary contacts at DC-13 at 125 V 0.3 A • Operating current of auxiliary contacts at DC-13 at 220 V 0.11 A • Operating current of auxiliary contacts at DC-13 at 220 V 0.3 A • Operating current of auxiliary contacts at DC-13 at 220 V 0.11 A • Operating current of auxiliary contacts at DC-13 at 25 V 0.11 A • Operating current of auxiliary contacts at DC-13 at 25 V 0.11 A • Operating current of auxiliary contacts at DC-13 at 20 V 0.11 A • Operating current of auxiliary contacts at DC-13 at 20 V 0.11 A • Operating current of auxiliary contacts at DC-13 at 20 V	 for auxiliary contacts 	0
at 110 V A • Operating current of auxiliary contacts at AC-15 4 A at 120 V • Operating current of auxiliary contacts at AC-15 4 A • Operating current of auxiliary contacts at AC-15 3 A at 230 V • Operating current of auxiliary contacts at AC-15 3 A • Operating current of auxiliary contacts at DC-13 2 A • Operating current of auxiliary contacts at DC-13 0.55 A at 60 V • Operating current of auxiliary contacts at DC-13 • Operating current of auxiliary contacts at DC-13 0.3 A at 110 V • Operating current of auxiliary contacts at DC-13 • Operating current of auxiliary contacts at DC-13 0.3 A at 110 V • Operating current of auxiliary contacts at DC-13 • Operating current of auxiliary contacts at DC-13 0.3 A at 125 V • Operating current of auxiliary contacts at DC-13 0.11 A at 220 V • Operating current of auxiliary contacts at DC-13 0.11 A at 220 V • Operating current of auxiliary contacts at DC-13 0.11 A at 25 V • Operating current of auxiliary contacts at DC-13 0.11 A • Evelocities and monitoring functions • Evelocities Tip clas <th>• operating current of auxiliary contacts at AC-15</th> <th>4 A</th>	• operating current of auxiliary contacts at AC-15	4 A
at 120 V • Operating current of auxiliary contacts at AC-15 at 125 V • Operating current of auxiliary contacts at AC-15 at 220 V • operating current of auxiliary contacts at AC-13 at 24 V • Operating current of auxiliary contacts at DC-13 at 60 V • Operating current of auxiliary contacts at DC-13 at 110 V • Operating current of auxiliary contacts at DC-13 at 125 V • Operating current of auxiliary contacts at DC-13 at 220 V Protective and monitoring functions Trip class CLASS 10E Design of the overload release electronic UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • of or short-circuit protection of the main circuit • with type of coordination 1 required • of or short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • required		4 A
at 125 V Operating current of auxiliary contacts at AC-15 3 A at 230 V operating current of auxiliary contacts at DC-13 2 A at 24 V Operating current of auxiliary contacts at DC-13 0.55 A at 60 V Operating current of auxiliary contacts at DC-13 0.55 A at 60 V Operating current of auxiliary contacts at DC-13 0.3 A at 110 V operating current of auxiliary contacts at DC-13 0.3 A at 125 V 0.3 A 0.3 A operating current of auxiliary contacts at DC-13 0.3 A at 125 V 0.3 A operating current of auxiliary contacts at DC-13 0.3 A at 125 V 0.11 A operating current of auxiliary contacts at DC-13 0.11 A at 220 V 0.11 A Protective and monitoring functions 0.11 A Trip class CLASS 10E Design of the overload release electronic UL/CSA ratings 115 A Full-load current (FLA) for three-phase AC motor 115 A et 600 V rated value 115 A Eosign of the fuse link 600 / R300 of or short-circuit protection of the main circuit 9G: 315		4 A
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at 60 V • Operating current of auxiliary contacts at DC-13 0.3 A at 110 V • operating current of auxiliary contacts at DC-13 0.3 A at 125 V • 0.3 A • Operating current of auxiliary contacts at DC-13 0.3 A at 125 V • 0.11 A • Operating current of auxiliary contacts at DC-13 0.11 A • Operating current of auxiliary contacts at DC-13 0.11 A • Operating current of auxiliary contacts at DC-13 0.11 A • Operating current of auxiliary contacts at DC-13 0.11 A • Operating current of auxiliary contacts at DC-13 0.11 A • Operating current of auxiliary contacts at DC-13 0.11 A • Operating current of auxiliary contacts at DC-13 0.11 A • Design of the overload release electronic U/CSA ratings • I15 A • at 480 V rated value 115 A • at 480 V rated value 115 A • at 600 V rated value 115 A • at 600 V rated value 115 A • bool / rated value 115 A • for short-circuit protection of the main circuit • of or short-circuit protection of the main circuit • with type of coordination 1 required gG: 315		2 A
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at 220 V Protective and monitoring functions Trip class CLASS 10E Design of the overload release electronic UL/CSA ratings Full-load current (FLA) for three-phase AC motor 115 A • at 480 V rated value 115 A • at 600 V rated value 115 A Contact rating of auxiliary contacts according to UL B600 / R300 Short-circuit protection B600 / R300 Contact rating of coordination 1 required gG: 315 A - with type of coordination 1 required gG: 315 A - with type of assignment 2 required gG: 315 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A		0.3 A
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Design of the overload release electronic UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 115 A • at 600 V rated value 115 A Contact rating of auxiliary contacts according to UL B600 / R300 Short-circuit protection B600 / R300 Contact rating of the fuse link 9G: 315 A - with type of coordination 1 required gG: 315 A - with type of assignment 2 required gG: 315 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A	Protective and monitoring functions	
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Full-load current (FLA) for three-phase AC motor 115 A • at 480 V rated value 115 A • at 600 V rated value 115 A Contact rating of auxiliary contacts according to UL B600 / R300 Short-circuit protection B600 / R300 Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 315 A — with type of assignment 2 required gG: 315 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A	UL/CSA ratings	
• at 600 V rated value • at 600 V rated value 115 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required		
Contact rating of auxiliary contacts according to ULB600 / R300Short-circuit protectionDesign of the fuse link 	• at 480 V rated value	115 A
Short-circuit protection Design of the fuse link gG: 315 A - with type of coordination 1 required gG: 315 A - with type of assignment 2 required gG: 315 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A	• at 600 V rated value	115 A
Design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required gG: 315 A - with type of assignment 2 required gG: 315 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A	Contact rating of auxiliary contacts according to UL	B600 / R300
Design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required gG: 315 A - with type of assignment 2 required gG: 315 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A	Short-circuit protection	
with type of coordination 1 requiredgG: 315 A with type of assignment 2 requiredgG: 315 A• for short-circuit protection of the auxiliary switch requiredfuse gG: 6 A	Design of the fuse link	
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required GG: 315 A fuse gG: 6 A 	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch required	- with type of coordination 1 required	gG: 315 A
required	— with type of assignment 2 required	gG: 315 A
Installation/ mounting/ dimensions		fuse gG: 6 A
	Installation/ mounting/ dimensions	

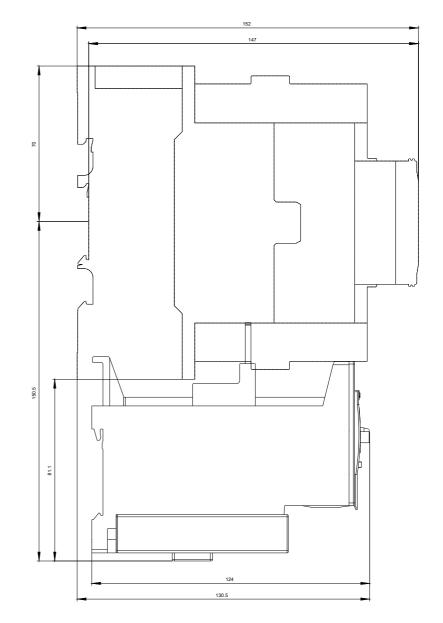
 mounting position 	any
Mounting type	Contactor mounting
Height	106 mm
Width	70 mm
Depth	124 mm

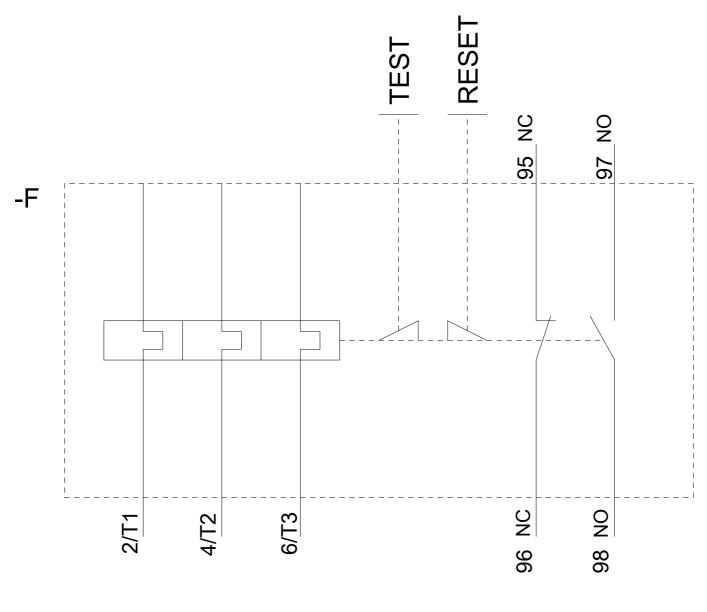
Connections/ Terminals			
Product function			
 removable terminal for auxiliary and control circuit 	Yes		
 Type of electrical connection for main current circuit 	screw-type terminals		
 Type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals		
Arrangement of electrical connectors for main current circuit	Top and bottom		
Type of connectable conductor cross-sections			
 for main contacts 			
— solid	2x (2.5 16 mm²)		
— stranded	2x 16 mm²		
— single or multi-stranded	1x (2,5 70 mm²), 2x (2,5 50 mm²)		
 finely stranded with core end processing 	1x (2,5 50 mm²), 2x (2,5 35 mm²)		
 at AWG conductors for main contacts 	1x (10 2/0), 2x (10 1/0)		
Type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid	2x (0.25 1.5 mm²)		
— single or multi-stranded	2x (0,25 1,5 mm²)		
 finely stranded with core end processing 	2x (0.25 1.5 mm²)		
 finely stranded without core end processing 	2x (0.25 1.5 mm²)		
 at AWG conductors for auxiliary contacts 	2x (24 16)		
Tightening torque			
 for main contacts with screw-type terminals 	4.5 6 N·m		
Design of screwdriver shaft	Diameter 5 to 6 mm		
Size of the screwdriver tip	Pozidriv PZ 2		
Design of the thread of the connection screw			
• for main contacts	M6		
Communication/ Protocol			
Type of voltage supply via input/output link master	No		
Electromagnetic compatibility			
Conducted interference			
• due to burst acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3		

 due to conductor-earth surge acc. 61000-4-5 	to IEC	2 kV (line to earth) cor	responds to degree	of severity 3
 due to conductor-conductor surge 61000-4-5 	acc. to IEC	1 kV (line to line) corresponds to degree of severity 3		
 due to high-frequency radiation ac 61000-4-6 	requency radiation acc. to IEC		ge 0.15 to 80 MHz, m	nodulation 80 % AM
Field-bound parasitic coupling acc. to IE	C 61000-4-3	10 V/m		
Electrostatic discharge acc. to IEC 6100	0-4-2	6 kV contact discharge	e / 8 kV air discharge)
isplay				
Display version for switching status 		Slide switch		
ertificates/ approvals				
General Product Approval			EMC	For use in haz- ardous loca- tions
		EHC	RCM	ATEX
Declaration of Conformity	Test Certif		Marine / Ship	ping
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3046-1XD0&objecttype=14&gridview=view1







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