## **SIEMENS**

## Data sheet

## 3RB3046-2XW1

Overload relay 32...115 A for motor protection Size S3, Class 20E Stand-alone installation Main circuit: Straight-through transformer 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	S3
Size of contactor can be combined company-specific	S3
Power loss [W] total typical	0.6 W
Insulation voltage with degree of pollution 3 rated	1 000 V
value	
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	600 V

<ul> <li>in networks with grounded star point between</li> </ul>	690 V
main and auxiliary circuit	
Protection class IP	
• on the front	IP20
<ul> <li>of the terminal</li> </ul>	IP20
Shock resistance	8g / 11 ms
• acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
Thermal current	115 A
Recovery time	
<ul> <li>after overload trip with automatic reset typical</li> </ul>	3 min
<ul> <li>after overload trip with remote-reset</li> </ul>	0 min
<ul> <li>after overload trip with manual reset</li> </ul>	0 min
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Certificate of suitability relating to ATEX	PTB 09 ATEX 3001
Protection against electrical shock	finger-safe
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
<ul> <li>during transport</li> </ul>	-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- dependent overload release	32 115 A
Operating voltage	

Operating power	
<ul> <li>for three-phase motors at 400 V at 50 Hz</li> </ul>	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

1 000 V 1 000 V

115 A

50 ... 60 Hz

Design of the auxiliary switch	integrated
Number of NC contacts for auxiliary contacts	1

• rated value

• at AC-3 rated value maximum

Operating frequency rated value

Operating current rated value

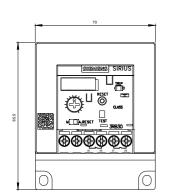
Number of NO contacts for auxiliary contacts         1           • lobe         for message "tripped"           Number of CO contacts         0           Operating current of auxiliary contacts at AC-15         4           • at 24 V         4 A           • at 110 V         4 A           • at 125 V         4 A           • at 125 V         4 A           • at 125 V         4 A           • at 230 V         3 A           Operating current of auxiliary contacts at DC-13         -           • at 24 V         2 A           • at 25 V         4 A           • at 25 V         0.55 A           • at 10 V         0.3 A           • at 25 V         0.11 A           Protective and monitoring functions         -           Trip class         CLASS 20E           Design of the overload release         electronic           UUCSA 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         Beol/ R300           Stort-cricut protection of the main circuit         -		
• Notefor message "tripped"Number of C0 contacts0• for auxiliary contacts0Operating current of auxiliary contacts at AC-154• at 24 V4• at 110 V4• at 120 V4• at 120 V4• at 120 V3• at 230 V3AOperating current of auxiliary contacts at DC-13• at 24 V2• at 24 V3AOperating current of auxiliary contacts at DC-13• at 24 V2• at 80 V0.55 A• at 125 V0.3 A• at 125 V0.3 A• at 125 V0.3 A• at 220 V0.11 AProtective and monitoring functionsTrip classClass 20EDesign of the overload releaseelectronicU/CSA ratings115 AFull-load current (FLA) for three-phase AC motor• at 480 V rated value115 A• at 600 V rated value155 A• at 600 V rated value155 A• Contact rating of auxiliary contacts according to ULBosign of the fuse link15 A• for short-circuit protection of the main circuit9C 315 A• with type of coordination 1 required9C 315 A• or short-circuit protection of the auxiliary switch requiredand-alone installationInstallation/ mounting/ dimensionsand-alone installationHeight106 mm124 mmRequired spacing • with side-by-side mounting124 mm	• Note	for contactor disconnection
Number of CO contacts         Image: Contacts                • for auxiliary contacts at AC-15             • at 24 V             • at 24 V             • at 24 V             • 4 A             • at 120 V             • 4 A             • at 120 V             • 4 A             • at 120 V             • at 230 V             • 3A                 • at 24 V             • at 230 V             • 3A          SA                 • at 230 V             • 3A          SA            Operating current of auxiliary contacts at DC-13             • at 24 V             • at 60 V             • 0.55 A             • at 110 V             • 0.3 A             • at 220 V             • 0.3 A            • at 220 V             • 0.3 A             • at 220 V             • 0.3 A             • at 220 V             • 0.3 A             • at 220 V             • 0.3 A             • at 220 V             • 0.3 A             • 0.3 A	-	
• for auxiliary contacts0Operating current of auxiliary contacts at AC-154• at 22 V4 A• at 110 V4 A• at 110 V4 A• at 120 V4 A• at 125 V4 A• at 230 V3 AOperating current of auxiliary contacts at DC-132 A• at 24 V0.55 A• at 60 V0.3 A• at 110 V0.3 A• at 220 V0.11 AProtective and monitoring functionsVTrip classCLASS 20EDesign of the overload releaseelectronicU/CSA ratingsUFull-cod current (FLA) for three-phase AC motor115 A• at 480 V rated value115 A• at 480 V rated value115 A• at 600 V rated value600 / R300Stort-circuit protection of the main circuit • or short-circuit protection of the main circuit • or short-circuit protection of the auxiliary switch required96: 315 A• for short-circuit protection of the auxiliary switch required96: 315 A• for short-circuit protection of the auxiliary switch required106 mmVidth0.06 mmWounting positionandMounting typestand-alone installationHeight106 mmVidth70 mmDepti papeling • with side-by-side mounting414 mm		for message "tripped"
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et 110 V4 A• at 120 V4 A• at 120 V4 A• at 125 V4 A• at 230 V3 AOperating current of audilary contacts at DC-137• at 24 V2 A• at 60 V0.55 A• at 10 V0.3 A• at 220 V0.11 AProtective and monitoring functionsTrip classCLASS 20EDesign of the overload releaseelectronicUL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value115 A• at 600 V rated value115 A• at 600 V rated value9600 / R300Short-circuit protection of the main circuit• or short-circuit protection of the main circuit9G: 315 A• or short-circuit protection of the main circuitfuse gG: 6 A• or short-circuit protection of the auxiliary switch required9G: 315 AMounting typestand-alone installation• fuse policionanyMounting typestand-alone installationHeight106 mmWith the - 70 mm24 mmRequired spacing614 mm• with side-by-side mounting	Operating current of auxiliary contacts at AC-15	
at 120 V     4 A       at 125 V     4 A       at 125 V     4 A       at 125 V     3 A       Operating current of auxiliary contacts at DC-13     3 A       at 24 V     2 A       at 60 V     0.55 A       at 10 V     0.3 A       at 125 V     0.3 A       at 125 V     0.3 A       at 125 V     0.3 A       at 220 V     0.11 A       Protective and monitoring functions       Trip class       Class 20 V     0.11 A       Protective and monitoring functions       Trip class       Class 20 V     0.11 A       Protective and monitoring functions       Trip class       Class 20E       Design of the overload release       UVCSA ratings       Full-dca current (FLA) for three-phase AC motor       at 800 V rated value     115 A       Contact rating of auxiliary contacts according to UL     B600 / R300       Short-circuit protection of the main circuit       - with type of coordination 1 required     gG: 315 A       - on the fuse link     fuse gG: 6 A       - on short-circuit protection of the auxiliary switch     fuse gG: 6 A       - on the type     stand-alone	• at 24 V	4 A
at 125 V     4 A       at 230 V     3 A       Operating 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     0.11 A       Protective and monitoring functions       Trip class     CLASS 20E       Design of the overload release     electronic       U/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       at 600 V rated value     600 / R300       Stort-circuit protection of the main circuit       - with type of coordination 1 required     gG: 315 A       e for short-circuit protection of the main circuit     gG: 315 A       - with type of assignment 2 required     gG: 315 A       e for short-circuit protection of the auxiliary switch required     gG: 315 A       for short-circuit protection of the auxiliary switch required     any       Mounting type     stand-alone installation       Height     106 mm       Yitch     70 mm       Depth     164 mm	● at 110 V	4 A
at 230 V       3 A         Operating current of auxiliary contacts at DC-13 <ul> <li>at 24 V</li> <li>2 A</li> <li>at 60 V</li> <li>0.55 A</li> <li>at 110 V</li> <li>0.3 A</li> <li>at 125 V</li> <li>0.3 A</li> <li>at 125 V</li> <li>0.3 A</li> <li>at 220 V</li> </ul> <li>Protective and monitoring functions</li> <li>Trip class</li> <li>ol 11 A</li> <li>Protective and monitoring functions</li> <li>Protective and monitoring functions</li> <li>Protective and monitoring functions</li> <li>CLASS 20E</li> <li>electronic</li> <li>U/CSA ratings</li> <li>Full-load current (FLA) for three-phase AC motor</li> <li>at 480 V rated value</li> <li>115 A</li> <li>Contact rating of auxiliary contacts according to UL</li> <li>B600 / R300</li> <li>Short-circuit protection</li> <li>Every of coordination 1 required</li> <li>of or short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>of or short-circuit protection of the auxiliary switch required</li> <li>of or short-circuit protection of the auxiliary switch required</li> <li>of short-circuit protection of the auxiliary switch required</li> <li>of short-circuit protection of the auxiliary switch required</li> <li>of short-circuit protection of the auxiliary switch required</li> <li>full-bad current (Mounting Venemation 1 required</li> <li>of short-circuit protection of the auxiliary switch required</li> <li>of short-circuit protection of the auxiliary contacta the auxiliary sw</li>	● at 120 V	4 A
Operating current of auxiliary contacts at DC-13     2 A       • 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       Other colspan="2">Other colspan="2"       Other colspan="	● at 125 V	4 A
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• at 220 V     0.11 A       Protective and monitoring functions     CLASS 20E       Trip class     cLASS 20E       Design of the overload release     electronic       U/CSA ratings        Full-bad current (FLA) for three-phase AC motor     115 A       • at 800 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       Short-circuit protection of the main circuit     gG: 315 A       • for short-circuit protection of the main circuit     gG: 315 A       • for short-circuit protection of the auxiliary switch     fuse gG: 6 A       required     any       Mounting type     stand-alone installation       Height     106 mm       Vidth     70 mm       Depth     124 mm       Required spacing     with side-by-side mounting	● at 110 V	0.3 A
Protective and monitoring functions         Trip class       CLASS 20E         Design of the overload release       electronic         UL/CSA ratings       Electronic         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         Short-circuit protection of the main circuit	● at 125 V	0.3 A
Trip class       CLASS 20E         Design of the overload release       electronic         UL/CSA ratings       electronic         Full-load current (FLA) for three-phase AC motor       115 A         • at 480 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         Installation/ mounting/ dimensions       any         Mounting position       any         Height       106 mm         Width       70 mm         Depth       124 mm         Required spacing       • with side-by-side mounting	• at 220 V	0.11 A
Trip class       CLASS 20E         Design of the overload release       electronic         UL/CSA ratings       electronic         Full-load current (FLA) for three-phase AC motor       115 A         • at 480 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         Installation/ mounting/ dimensions       any         Mounting position       any         Height       106 mm         Width       70 mm         Depth       124 mm         Required spacing       • with side-by-side mounting		
Design of the overload release       electronic         UL/CSA ratings       Full-load current (FLA) for three-phase AC motor <ul> <li>at 480 V rated value</li> <li>115 A</li> <li>at 600 V rated value</li> <li>115 A</li> </ul> Contact rating of auxiliary contacts according to UL         B600 / R300           Short-circuit protection         B600 / R300           Short-circuit protection         gG: 315 A <ul></ul>		01400.005
UL/CSA ratings         Full-load current (FLA) for three-phase AC motor <ul> <li>at 480 V rated value</li> <li>115 A</li> <li>115 A</li> </ul> contact rating of auxiliary contacts according to UL <li>B600 / R300</li> Short-circuit protection           Design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 315 A</li> <li>gG: 315 A</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> Mounting position       any         Mounting type       stand-alone installation         Height       106 mm         Width       70 mm         Depth       124 mm         Required spacing <ul> <li>with side-by-side mounting</li> <li>with side-by-side mounting</li> </ul>		
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         Installation/ mounting/ dimensions       any         Mounting position       any         Mounting type       stand-alone installation         Height       106 mm         Width       70 mm         Depth       124 mm         Required spacing       • with side-by-side mounting	Design of the overload release	electronic
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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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         Mounting position         Any         Mounting type         Height         106 mm         Width         70 mm         Depth         Required spacing         • with side-by-side mounting	• at 600 V rated value	115 A
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<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>fuse gG: 6 A</li> <li>Installation/ mounting/ dimensions</li> <li>Mounting position</li> <li>any</li> <li>stand-alone installation</li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Required spacing</li> <li>with side-by-side mounting</li> </ul>		
required required any		
Installation/ mounting/ dimensions       any         Mounting position       any         Mounting type       stand-alone installation         Height       106 mm         Width       70 mm         Depth       124 mm         Required spacing       • with side-by-side mounting		
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Mounting type     stand-alone installation       Height     106 mm       Width     70 mm       Depth     124 mm       Required spacing     • with side-by-side mounting		
Height     106 mm       Width     70 mm       Depth     124 mm       Required spacing     • with side-by-side mounting		-
Width     70 mm       Depth     124 mm       Required spacing     • with side-by-side mounting		
Depth     124 mm       Required spacing <ul> <li>with side-by-side mounting</li> <li>be with side-by-side mounting</li> <li>be wi</li></ul>	-	
<ul><li>Required spacing</li><li>● with side-by-side mounting</li></ul>		
• with side-by-side mounting		
	• with aida by aida may ating	
— forwards 0 mm		0 mm

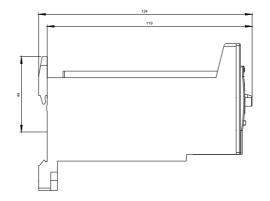
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm

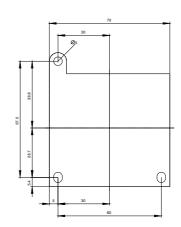
Connections/Terminals	
Product function	
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	Yes
Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	straight-through transformers
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
— single or multi-stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
— finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 14)
Tightening torque	
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 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	
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Communication/ Protocol	
Type of voltage supply via input/output link master	No
Electromagnetic compatibility	
Conducted interference	

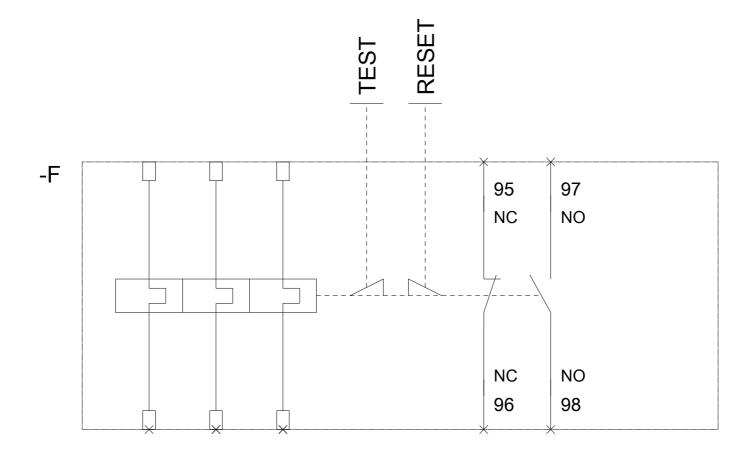
• due to burst ac	c. to IEC 61000-4	1-4	2 kV (power ports), 1 severity 3	kV (signal ports) corresp	oonds to degree of
<ul> <li>due to conducte</li> <li>61000-4-5</li> </ul>	or-earth surge ac	c. to IEC	2 kV (line to earth) co	prresponds to degree of s	everity 3
<ul> <li>due to conducte</li> <li>61000-4-5</li> </ul>	or-conductor surg	ge acc. to IEC	1 kV (line to line) con	responds to degree of se	verity 3
<ul> <li>due to high-free</li> <li>61000-4-6</li> </ul>	quency radiation a	acc. to IEC	10 V in frequency rar with 1 kHz	nge 0.15 to 80 MHz, mod	ulation 80 % AM
Field-bound parasitic	coupling acc. to	IEC 61000-4-3	10 V/m		
Electrostatic discharg	ge acc. to IEC 61	000-4-2	6 kV contact discharg	ge / 8 kV air discharge	
Display Display version			_	_	_
• for switching st	atus		Slide switch		
Certificates/approva	ls				
General Product	Approval		EMC	For use in haz- ardous loca- tions	Declaration of Conformity
CSA		EHC	C-Tick	(Ex) ATEX	EG-Konf.
Test Certific- ates	Marine / Ship	ping		other	

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=	3RB3046-2XW1
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?	/lang=en&mlfb=3RB3046-2XW1
Service&Support (Manuals, Certificates, Characteristics, FAC https://support.industry.siemens.com/cs/ww/en/ps/3RB3046-2XW1	Qs,)
Image database (product images, 2D dimension drawings, 3 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3	
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through currentty://support.industry.siemens.com/cs/ww/en/ps/3RB3046-2XW1/c	









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