# **SIEMENS**

## Data sheet

## 3RB3046-1XW1

Overload relay 32...115 A Electronic For motor protection Size S3, Class 10E 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] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 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	
<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</li> </ul>	600 V
- · ·	

main and auxiliary circuit

<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	690 V
<ul> <li>protection class IP on the front</li> </ul>	IP20
<ul> <li>Protection class IP of the terminal</li> </ul>	IP20
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	
<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 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
<ul> <li>during storage</li> </ul>	-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	
• rated value	1 000 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	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

Number of NO contacts for auxiliary contacts     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 120 V     • Operating current of auxiliary contacts at AC-15     4 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     4 A       at 220 V     • operating current of auxiliary contacts at DC-13     2.5 A       at 60 V     • Operating current of auxiliary contacts at DC-13     0.3 A       at 220 V     • Operating current of auxiliary contacts at DC-13     0.3 A       at 220 V     • Operating current of auxiliary contacts at DC-13     0.3 A       at 220 V     • Operating current of auxiliary contacts at DC-13     0.3 A       at 220 V     • Operating current of auxiliary contacts at DC-13     0.3 A       at 220 V     • Operating current of auxiliary contacts at DC-13     0.11 A       etcost     • Operating current of auxiliary contacts at DC-13     0.11 A       etcost     • Operating current of auxiliary contacts at DC-13     0.11 A </th <th>Number of NC contacts for auxiliary contacts</th> <th>1</th>	Number of NC contacts for auxiliary contacts	1
Number of NO contacts for auxiliary contacts     1       • Note     for message "tripped"       Number of CO contacts     0       • for auxiliary contacts     0       • operating current of auxiliary contacts at AC-15     4.A       at 24 V     • A       • Operating current of auxiliary contacts at AC-15     4.A       at 10 V     • Operating current of auxiliary contacts at AC-15     4.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     4.A       at 25 V     • Operating current of auxiliary contacts at DC-13     3.A       at 23 0 V     • Operating current of auxiliary contacts at DC-13     3.A       at 24 V     0.Deprating 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 10 V     • Operating current of auxiliary contacts at DC-13     0.3 A       at 125 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 210 V     • Operating current of auxiliary contacts at DC-13     0.3 A       at 125 V     • Operating current of auxiliary contacts at DC-13     0.3 A	-	
• Note     for message "tripped"       Number of CO contacts     0       • operating current of auxiliary contacts at AC-15 at 24 V     A       • Operating current of auxiliary contacts at AC-15 at 110 V     A       • Operating current of auxiliary contacts at AC-15 at 120 V     A       • Operating current of auxiliary contacts at AC-15 at 120 V     A       • Operating current of auxiliary contacts at AC-15 at 120 V     A       • Operating current of auxiliary contacts at AC-15 at 220 V     A       • Operating current of auxiliary contacts at DC-13 at 220 V     A       • Operating current of auxiliary contacts at DC-13 at 220 V     Operating current of auxiliary contacts at DC-13 at 20 V       • Operating current of auxiliary contacts at DC-13 at 20 V     Operating current of auxiliary contacts at DC-13 at 20 V       • Operating current of auxiliary contacts at DC-13 at 220 V     Operating current of auxiliary contacts at DC-13 at 220 V       Protective and monitoring functions     CLASS 10E       The Jaes     CLASS 10E       Design of the overload release     115 A       • at 480 V rated value     116 A       Contact rating of auxiliary contacts according to UL     B600 / R300       Short-circuit protection of the main circuit • with type of coordination 1 required 9C: 315 A     9C: 315 A       • for short-circuit protection of the main circuit • circuit current of the auxiliary switch     9C: 315 A		
Number of CO contacts     0       • for auxiliary contacts     0       • 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 125 V     4 A       • Operating current of auxiliary contacts at AC-15 at 125 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 220 V     4 A       • Operating current of auxiliary contacts at DC-13 at 24 V     0.55 A       • Operating current of auxiliary contacts at DC-13 at 25 V     0.55 A       • Operating current of auxiliary contacts at DC-13 at 25 V     0.3 A       • Operating current of auxiliary contacts at DC-13 at 25 V     0.3 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 10 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       Protective and monitoring functions     115 A       Trip class     CLASS 10E       Design of the overload release     115 A       Contact rating of auxiliary contacts according to UL     B600 / R300		
<ul> <li>operating current of auxiliary contacts at AC-15 at 24 V</li> <li>Operating current of auxiliary contacts at AC-15 4A</li> <li>at 10 V</li> <li>Operating current of auxiliary contacts at AC-15 4A</li> <li>at 120 V</li> <li>Operating current of auxiliary contacts at AC-15 4A</li> <li>at 220 V</li> <li>Operating current of auxiliary contacts at AC-15 3A</li> <li>at 25 V</li> <li>Operating current of auxiliary contacts at DC-13 2A</li> <li>operating current of auxiliary contacts at DC-13 0.55 A</li> <li>at 60 V</li> <li>Operating current of auxiliary contacts at DC-13 0.55 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary contacts at DC-13 0.3 A</li> <li>operating current of auxiliary co</li></ul>		
• operating current of auxiliary contacts at AC-15     at 24 V     • Operating current of auxiliary contacts at AC-15     at 100 V     • Operating current of auxiliary contacts at AC-15     at 120 V     • Operating current of auxiliary contacts at AC-15     at 120 V     • Operating current of auxiliary contacts at AC-15     at 120 V     • Operating current of auxiliary contacts at AC-15     at 220 V     • Operating current of auxiliary contacts at AC-15     at 220 V     • Operating current of auxiliary contacts at DC-13     at 224 V     • Operating current of auxiliary contacts at DC-13     at 24 V     • Operating current of auxiliary contacts at DC-13     at 24 V     • Operating current of auxiliary contacts at DC-13     at 24 V     • Operating current of auxiliary contacts at DC-13     at 125 V     • Operating current of auxiliary contacts at DC-13     at 125 V     • Operating current of auxiliary contacts at DC-13     at 125 V     • Operating current of auxiliary contacts at DC-13     at 125 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     electronic     UCSA 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     Beo0 / R300     Short-circuit protection     for short-circuit protection of the main circuit         - with type of coordination 1 required         gG: 315 A         fue gG: 6 A         required	<ul> <li>for auxiliary contacts</li> </ul>	0
at 110 V       Operating current of auxiliary contacts at AC-15       4 A         at 120 V       Operating current of auxiliary contacts at AC-15       4 A         c) Operating current of auxiliary contacts at AC-15       3 A         at 230 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       0.3 A         at 110 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 110 V       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 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         beign of the overload release       electronic       0         Design of the o	• operating current of auxiliary contacts at AC-15	4 A
at 120 V         • Operating current of auxiliary contacts at AC-15       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       0.3 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         • 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         • Operating current of auxiliary contacts at DC-13       0.11 A       0.11 A         • Operating current of auxiliary contacts at DC-13       0.11 A       0.11 A         • Operating current of auxiliary contacts at DC-13       0.11 A       0.11 A         • Operating current of auxiliary contacts at DC-13       0.11 A       0.11 A         • Operating current of auxiliary contacts at DC-13       0.11 A       0.11 A         • Operating current of auxiliary contacts at DC-13       0.11 A       0.11 A         • Operating current of auxiliary contacts at DC-13       0.11 A       0.11 A <th></th> <th>4 A</th>		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       0.55 A       at 24 V         • Operating current of auxiliary contacts at DC-13       0.55 A         at 60 V       0.9 perating current of auxiliary contacts at DC-13       0.3 A         at 110 V       operating current of auxiliary contacts at DC-13       0.3 A         ot operating current of auxiliary contacts at DC-13       0.3 A         at 125 V       0.3 A         ot operating current of auxiliary contacts at DC-13       0.3 A         at 125 V       0.3 A         ot operating current of auxiliary contacts at DC-13       0.3 A         at 125 V       0.3 A         ot 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         U/CSA ratings       115 A         Full-load current (FLA) for three-phase AC motor       115 A         et 600 V rated value       115 A         Contact rating of auxiliary contacts according to UL       B600 / R300         Short-cir		4 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       0.3 A         at 110 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       • Operating current of auxiliary contacts at DC-13       0.3 A         at 220 V       • Operating current of auxiliary contacts at DC-13       0.11 A         Protective and monitoring functions       • Operating current of auxiliary contacts at DC-13       0.11 A         Protective and monitoring functions       • CLASS 10E       • electronic         UL/CSA ratings       • CLASS 10E       • electronic         UL/CSA ratings       • at 800 V rated value       115 A         • at 600 V rated value       115 A       • at 600 / R300         Short-circuit protection       • B600 / R300       • B600 / R300         Short-circuit protection of the main circuit       • with type of coordination 1 required       gG: 315 A         • for short-circuit protection of the auxiliary switch       fuse gG: 6 A       • fuse gG: 6 A		4 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       0.3 A         at 110 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       • 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         • Protective and monitoring functions       CLASS 10E         Design of the overload release       electronic         U/CSA ratings       Titp A         • at 800 V rated value       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 of the main circuit       gG: 315 A         • or short-circuit protection of the main circuit       gG: 315 A         • for short-circuit protection of the auxiliary switch       fuse GG: 6 A		3 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       • 0.9 erating 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         • 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 the overload release       electronic         UL/CSA ratings       • Electronic         Full-load current (FLA) for three-phase AC motor       115 A         • at 800 V rated value       115 A         • at 800 V rated value       115 A         • at 600 V rated value       115 A         • for short-circuit protection of the main circuit       - with type of coordination 1 required         • for short-circuit protection of the auxiliary switch required       gG: 315 A      <		2 A
at 110 V       • 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         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         • at 480 V rated value       115 A         • at 600 V rated value       115 A         • at 600 V rated value       115 A         • operating of the fuse link       6 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		0.55 A
at 125 V       0.0perating current of auxiliary contacts at DC-13 at 220 V       0.11 A         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 <ul> <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> </ul> Short-circuit protection         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		0.3 A
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       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		0.3 A
Trip class       CLASS 10E         Design of the overload release       electronic         UL/CSA ratings       electronic         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         Cheat full protection       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		0.11 A
Design of the overload release       electronic         UL/CSA ratings       Ilload 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       e 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	Protective and monitoring functions	
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       • 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	Trip class	CLASS 10E
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       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	Design of the overload release	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         Design of the fuse link           • for short-circuit protection of the main circuit       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     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     gG: 315 A     — with type of assignment 2 required     ofor short-circuit protection of the auxiliary switch     required		
Contact rating of auxiliary contacts according to UL       B600 / R300         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>with type of assignment 2 required</li> <li>gG: 315 A</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	• 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	
<ul> <li>with type of coordination 1 required gG: 315 A</li> <li>with type of assignment 2 required gG: 315 A</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		
<ul> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
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	

<ul> <li>mounting position</li> </ul>	any
Mounting type	stand-alone installation
Height	106 mm
Width	70 mm
Depth	124 mm

Connections/ Terminals			
Product function			
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	Yes		
<ul> <li>Type of electrical connection for main current circuit</li> </ul>	straight-through transformers		
<ul> <li>Type of electrical connection 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 acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3		
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV (line to earth) corresponds to degree of severity 3		
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (line to line) corresponds to degree of severity 3		
<ul> <li>due to high-frequency radiation acc. to IEC 61000-4-6</li> </ul>	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz		
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m		
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge		

Display

Display version ● for switchin	g status	Slide switch		
Certificates/ appr	ovals			
General Prod	uct Approval		EMC	For use in haz- ardous loca- tions
	(SA)	EHC	RCM	K ATEX

Declaration of	Conformity	Test Certificates	5	Marine / Ship	ping
CE	Miscellaneous	Type Test Certific- ates/Test Report	Special Test Certi- ficate	Lloyd's Register	
EG-Konf.				LRS	PRS

Marine / Shipping		other
RINA	DNV-GL DNV-GL	Confirmation

#### Further information

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=3RB3046-1XW1

Cax online generator

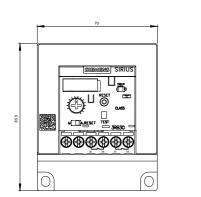
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3046-1XW1

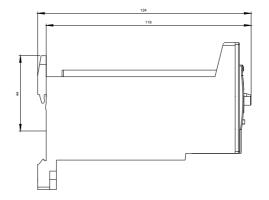
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3046-1XW1

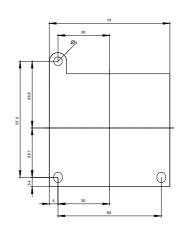
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3046-1XW1&lang=en

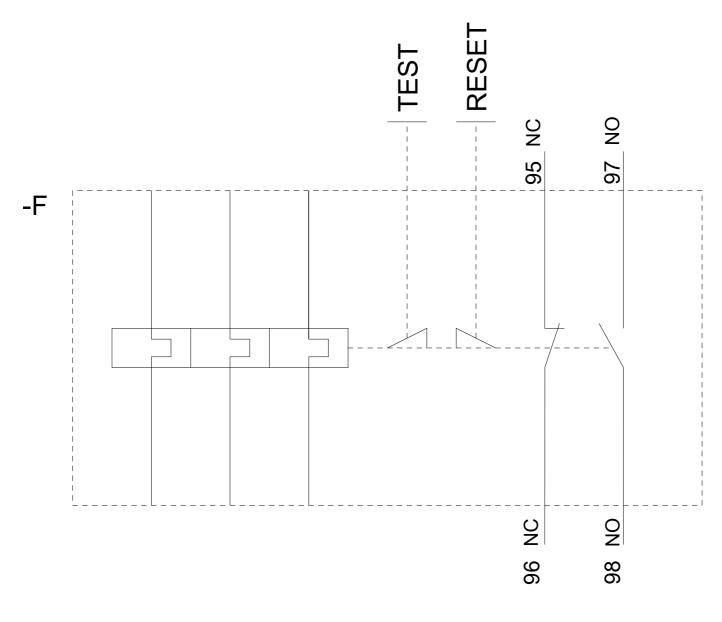
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3046-1XW1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3046-1XW1&objecttype=14&gridview=view1









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