SIEMENS

Data sheet

3RB3046-2XW1



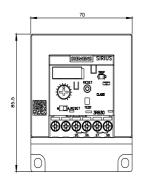
Overload relay 32...115 A Electronic For motor protection Size S3, Class 20E Stand-alone installation Main circuit: Straight-through transformer Auxiliary circuit: Screw Manual-Automatic-Reset

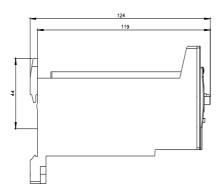
product designation sol	
product type designation3RGeneral technical datasize of overload relayS3	RB3 3
General technical data size of overload relay S3	3
size of overload relay S3	
size of contactor can be combined company-specific S3	3
power loss [W] for rated value of the current at AC in hot 0.6 operating state	6 W
• per pole 0.2	2 W
insulation voltage with degree of pollution 3 at AC rated value 10	000 V
surge voltage resistance rated value 8 k	kV
maximum permissible voltage for protective separation in networks with grounded star point	
• between auxiliary and auxiliary circuit 300	00 V
• between auxiliary and auxiliary circuit 300	00 V
• between main and auxiliary circuit 600	00 V
between main and auxiliary circuit	90 V
shock resistance 8g	g / 11 ms
• according to IEC 60068-2-27 15g	5g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms
vibration resistance 1-6	6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
thermal current 115	15 A
type of protection according to ATEX directive 2014/34/EU Ex	k 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 PT	TB 09 ATEX 3001
reference code according to IEC 81346-2 F	
Substance Prohibitance (Date) 03/	3/01/2017
Ambient conditions	
installation altitude at height above sea level maximum 2 0	000 m
ambient temperature	
during operation -25	5 +60 °C
• during storage -40	0 +80 °C
during transport -40	0 +80 °C
temperature compensation -25	5 +60 °C
relative humidity during operation 10) 95 %
Main circuit	
number of poles for main current circuit 3	
adjustable current response value current of the current- dependent overload release 32	2 115 A
operating voltage	
• rated value 1 0	000 V
• at AC-3e rated value maximum 1 0	000 V
operating frequency rated value 50) 60 Hz

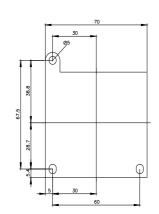
operational current rated value	115 A
operational current at AC-3e at 400 V rated value	115 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	18.5 55 kW
● for AC motors at 500 V at 50 Hz	22 75 kW
 for AC motors at 690 V at 50 Hz 	30 90 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of 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	115 A
• 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 	gG: 315 A
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	106 mm
width	70 mm
depth	124 mm
Connections/ Terminals	
product component removable terminal for auxiliary and	Yes
control circuit	
type of electrical connection	
for main current circuit	straight-through transformers
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
— solid or stranded	$1x (0.5 4 mm^2), 2x (0.5 2.5 mm^2)$ $1x (0.5 4 mm^2), 2x (0.5 2,5 mm^2)$
 — finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)
	ix (0.0 2.0 min), 2x (0.0 1.0 min)
	2x(20, 14)
for AWG cables for auxiliary contacts	2x (20 14)
for AWG cables for auxiliary contacts tightening torque for auxiliary contacts with screw-type terminals	2x (20 14) 0.8 1.2 N⋅m

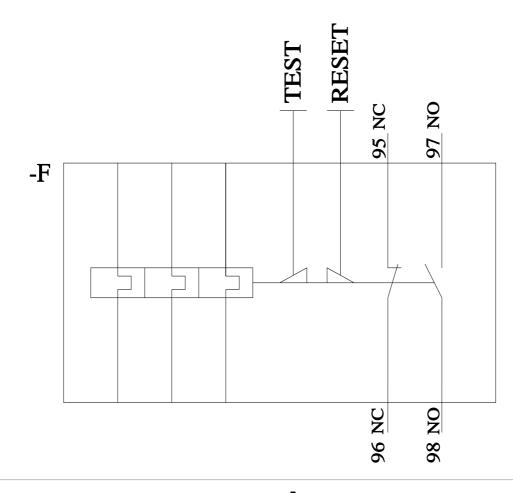
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv PZ 2
design of the thread of the connection screw	
 of the auxiliary and control contacts 	M3
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	
type of voltage supply via input/output link master	No
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3
 due to high-frequency radiation according to IEC 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	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Display	
display version for switching status Certificates/ approvals	Slide switch
General Product Approval	EMC
Constant Fronder Approvan	LITIV
For use in hazard- ous locations Declaration of Conformity	Test Certificates Marine / Shipping
EG-Konf.	Special Test Certific- ate <u>ates/Test Report</u>
Marine / Shipping	other
	Confirmation
Further information	
EAC relevant market (other than the sanctioned EAEU member sta Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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?mlft Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.asp Service&Support (Manuals, Certificates, Characteristics, FAQ https://support.industry.siemens.com/cs/ww/en/ps/3RB3046-2XW1 Image database (product images, 2D dimension drawings, 3D http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3R Characteristic: Tripping characteristics, I²t, Let-through curren https://support.industry.siemens.com/cs/ww/en/ps/3RB3046-2XW1 Further characteristics (e.g. electrical endurance, switching fr	brates. of the EAC certification if you intend to import or offer to supply these products to an rates Russia or Belarus). b=3RB3046-2XW1 bx?lang=en&mlfb=3RB3046-2XW1 ls,) 1 omodels, device circuit diagrams, EPLAN macros,) lB3046-2XW1⟨=en nt 1/char requency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Sear 3RB30462XW1	Subject to change without notice

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