Overload relay 6...25 A Electronic For motor protection Size S0, Class 20E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset Reusable packaging Pack = 60 units



Product brand name	SIRIUS
Product designation	solid-state overload relay
Product type designation	3RB3

Size of overload relay	S0
Size of contactor can be combined company-specific	S0
Power loss [W] for rated value of the current	
• at AC in hot operating state	1.2 W
• at AC in hot operating state per pole	0.4 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 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
of the terminal	IP20
Shock resistance	15g / 11 ms
• acc. to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
Thermal current	25 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- dependent overload release	6 25 A
Operating voltage	
• rated value	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	25 A
Operating power	
• for three-phase motors at 400 V at 50 Hz	3 11 kW
• for AC motors at 500 V at 50 Hz	4 15 kW
• for AC motors at 690 V at 50 Hz	5.5 22 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
Operating 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
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	0.3 A
● at 220 V	0.11 A
Protective and monitoring functions	
Trip class	CLASS 20E
Design of the overload release	electronic
JL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	25 A
• at 600 V rated value	25 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: 125 A, RK5: 100 A
— with type of assignment 2 required	gG: 63 A, J: 100 A

required	
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	Contactor mounting
Height	87 mm
Width	45 mm
Depth	84 mm

fuse gG: 6 A

Required spacing

• for short-circuit protection of the auxiliary switch

• with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	6 mm
— Backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
• for live parts	
— forwards	6 mm
— Backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm

Connections/ Terminals	
Product function	
 removable terminal for auxiliary and control 	Yes
circuit	
Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Arrangement of electrical connectors for main current	Top and bottom
circuit	
Type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— stranded	2x 10 mm²
 single or multi-stranded 	1x (1 10 mm²), 2x (1 10 mm²)
— finely stranded with core end processing	1x (1 6 mm²), 2 x (1 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	1x (16 8), 2x (16 8)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— 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)
 at AWG conductors for auxiliary contacts 	1x (20 14), 2x (20 14)
Tightening torque	

2 2.5 N·m
0.8 1.2 N·m
Diameter 5 to 6 mm
Pozidriv PZ 2
M4
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
 due to conductor-earth surge acc. to IEC 61000-4-5 	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
 due to high-frequency radiation acc. to IEC 61000-4-6 	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 switching status	Slide switch

Certificates/ approvals

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other









Confirmation

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3026-2QB0-Z X95

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-2QB0-Z X95

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

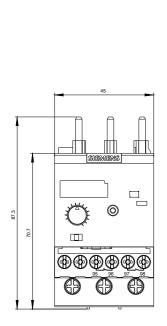
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2QB0-Z X95

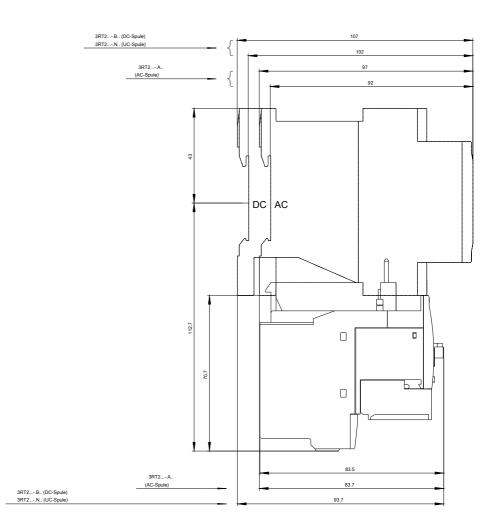
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-2QB0-Z X95&lang=en

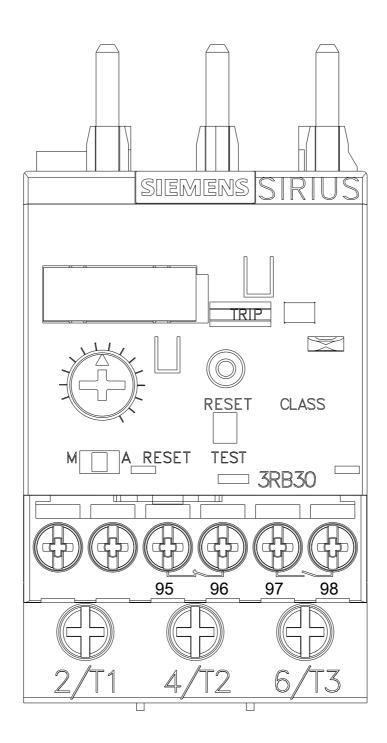
Characteristic: Tripping characteristics, I2t, Let-through current

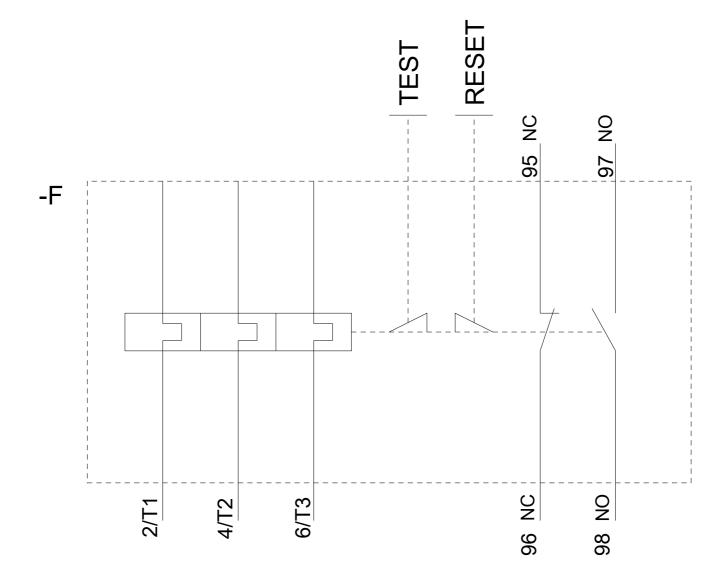
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2QB0-Z X95/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-2QB0-Z X95&objecttype=14&gridview=view1









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