SIEMENS

Data sheet 3RB3036-2WW1



Overload relay 20...80 A Electronic For motor protection Size S2, Class 20E Standalone 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	S2		
size of contactor can be combined company-specific	S2		
power loss [W] for rated value of the current at AC in hot operating state	0.2 W		
• per pole	0.07 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for protective separation			
 in networks with ungrounded 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 ungrounded star point between main and auxiliary circuit 	600 V		
 in networks with grounded star point between main and auxiliary circuit 	690 V		
shock resistance	15g / 11 ms		
• according 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/s ² ; 10 cycles		
thermal current	80 A		
recovery time after overload trip			
 with automatic reset typical 	3 min		
• with remote-reset	0 min		
with manual reset	0 min		
reference code according to IEC 81346-2	F		
Substance Prohibitance (Date)	10/15/2014		
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1		
Net Weight	0.294 kg		
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 current response value current of the current-	20 80 A
dependent overload release	
operating voltage	000 1/
• rated value	690 V
at AC-3e rated value maximum operating frequency rated value	690 V 50 60 Hz
operating frequency rated value	80 A
operational current at AC-3e at 400 V rated value	80 A
operating power	
• for 3-phase motors at 400 V at 50 Hz	11 37 kW
• for AC motors at 500 V at 50 Hz	15 55 kW
• for AC motors at 690 V at 50 Hz	18.5 75 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 Vat 220 V	0.3 A 0.11 A
Protective and monitoring functions	V.ITA
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	80 A
• at 600 V rated value	80 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: 250 A, RK5: 300 A
— with type of coordination 2 required	gG: 250 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	81 mm
width	55 mm
depth	109 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
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 main contacts			
solid or stranded	1x (1 50 mm²), 2x (1 35 mm²)		
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 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)		
 for AWG cables for auxiliary contacts 	1x (20 14), 2x (20 14)		
tightening torque			
for auxiliary contacts with screw-type terminals	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		
Electrical Safety			
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		
lectromagnetic 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	Slide switch		
approvals Certificates			
General Product Approval		EMV	













For use in hazardous locations

Test Certificates

Maritime application



Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report







Maritime application

other

Environment







Confirmation

Environmental Con-<u>firmations</u>

Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RB3036-2WW1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WW1

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

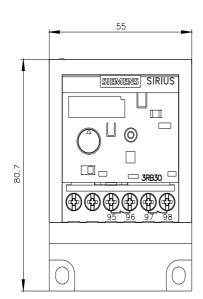
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-2WW1&lang=en

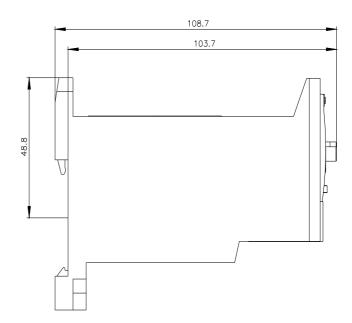
Cax online generator

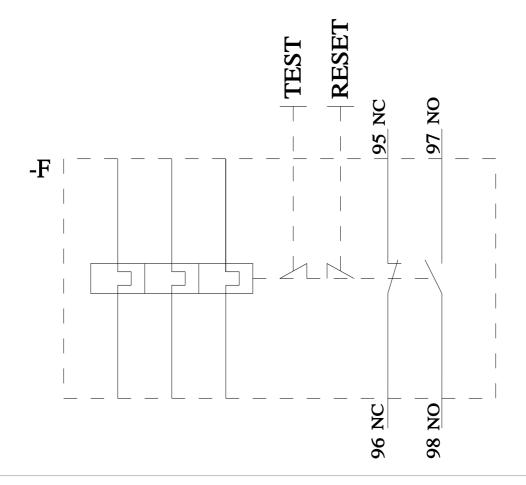
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3036-2WW1

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp prod noCOMP="HAUPT"></mmp prod no>







last modified: 4/2/2025 🖸