SIEMENS

Data sheet

3RB3036-2WB0



Overload relay 20...80 A Electronic For motor protection Size S2, Class 20E Contactor mounting Main circuit: Screw 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	\$2			
size of contactor can be combined company-specific	\$2 \$2			
power loss [W] for rated value of the current at AC in hot	4.6 W			
operating state				
• per pole	1.53 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			
thermal current	60 A			
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			
Weight	0.404 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- dependent overload release	20 80 A			
operating voltage				
rated value	690 V			

 at AC-3e rated value maximum 	690 V				
operating frequency rated value	50 60 Hz				
operational current rated value	80 A				
operational current at AC-3e at 400 V rated value	60 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 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 	60 A				
• at 600 V rated value	60 A				
at 600 V rated value contact rating of auxiliary contacts according to UL					
at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	60 A				
at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	60 A				
at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	60 A B600 / R300				
tat 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	60 A B600 / R300 gG: 250 A, RK5: 300 A				
tat 600 V rated value contact rating of auxiliary contacts according to UL 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	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A				
the set of the fuse link e for short-circuit protection of the main circuit with type of coordination 1 required e for short-circuit protection of the auxiliary switch required	60 A B600 / R300 gG: 250 A, RK5: 300 A				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any				
tat 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting				
tat 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm				
tat 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height width	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm				
tat 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm				
tat 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection 	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes Yes				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes Screw-type terminals screw-type terminals				
• at 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes Screw-type terminals screw-type terminals				
the set of the se	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes Screw-type terminals screw-type terminals Top and bottom				
e at 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit for auxiliary and control circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid 	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes Screw-type terminals screw-type terminals Top and bottom 1x (1 50 mm ²), 2x (1 35 mm ²)				
e at 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit for auxiliary and control circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid stranded 	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes Screw-type terminals screw-type terminals Top and bottom 1x (1 50 mm²), 2x (1 35 mm²) 2x (10 35 mm²), 1x 50 mm²				
• at 600 V rated value contact rating of auxiliary contacts according to UL 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 Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded	60 A B600 / R300 gG: 250 A, RK5: 300 A gG: 250 A fuse gG: 6 A any Contactor mounting 99 mm 55 mm 104 mm Yes Screw-type terminals screw-type terminals Top and bottom 1x (1 50 mm ²), 2x (1 35 mm ²) 2x (10 35 mm ²), 1x 50 mm ² 1x (1 50 mm ²), 2x (1 35 mm ²)				

 for auxiliary cont 	acts						
• Ior adxillary com — solid	4010		1x (0	$5 4 \text{ mm}^2$ 2x (0.5 2	5 mm²)		
— solid — solid or stra	anded			: (0.5 4 mm²), 2x (0.5 2.5 mm²) : (0,5 4 mm²), 2x (0,5 2,5 mm²)			
	ded with core end process	sina					
-	for auxiliary contacts	ing .		0.5 2.5 mm²), 2x (0.5 1.5 mm²) 20 14), 2x (20 14)			
tightening torque			17 (20	· 14), ZX (20 14)			
	s with screw-type terminal	8	3 1	.5 N·m			
	•••						
	for auxiliary contacts with screw-type terminals sign of screwdriver shaft			0.8 1.2 N·m			
			Diameter 5 to 6 mm Pozidriv PZ 2				
size of the screwdrive	•		POZIU				
0	of the connection screw		140				
for main contact				M6			
	ind control contacts		M3				
Electrical Safety							
-	n the front according to I		IP20				
•	he front according to IEC	60529	finger-safe, for vertical contact from the front				
ommunication/ Proto							
type of voltage suppl	y via input/output link m	aster	No				
ectromagnetic compa	atibility						
conducted interferen	ce						
 due to burst acc 	• 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 conducto 61000-4-5	r-conductor surge accordir	ng to IEC	1 kV (1 kV (line to line) corresponds to degree of severity 3			
4-6	 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 interferen	ce according to IEC 610	00-4-3	10 V/r	n			
electrostatic discharg	ge according to IEC 6100	0-4-2	6 kV c	contact discharge / 8 kV a	air discharge		
isplay							
display version for swit	ching status		Slide	switch			
pprovals Certificates							
General Product App	roval						
Confirmation	ŬĶ	<i>c c</i>		(m)	ŝ	гпг	
	ZÒ	ככ		(m)	(%)	FHI	
	СН	EG-Konf.		ccc	UL	LIIL	
	For use in hazard-						
EMV	ous locations	Test Certificate	es		Marine / Shipping		
Ô	Æx>	<u>Type Test Cer</u> ates/Test Rep		<u>Special Test Certific-</u> <u>ate</u>		ĴÅ DNV	
RGM	ATEX				ABS	DNV	
Marine / Shipping				other	Environment		
Lloyd's Register				Confirmation	Environmental Con- firmations		
	<u>siemens.com/cs/ww/en/vi</u> / .nloadcenter (Catalogs, I						
Industry Mall (Online https://mall.industry.sie Cax online generator	ordering system) mens.com/mall/en/en/Cat						

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3036-2WB0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

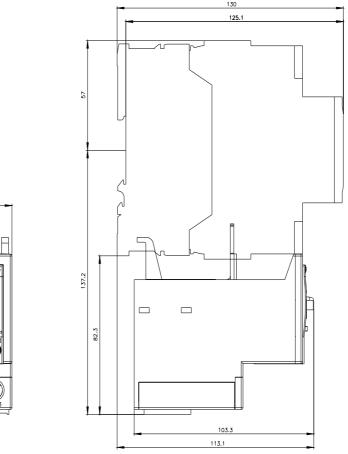
https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WB0

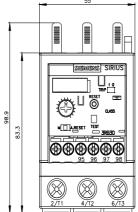
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-2WB0&lang=en

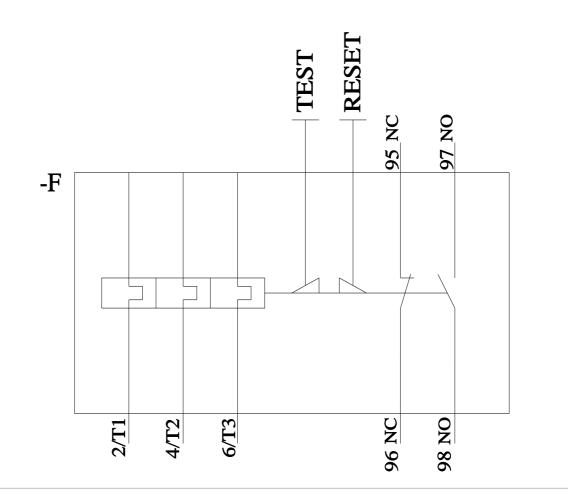
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WB0/c

2WB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3036-2WB0&objecttype=14&gridview=view1







last modified:

3/11/2024 🖸