## SIEMENS

## Data sheet

## 3RB3036-2WX1

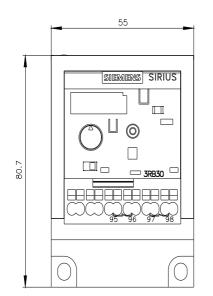


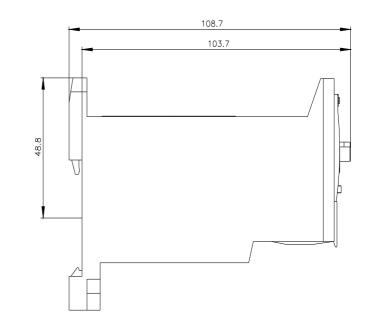
Overload relay 20...80 A Electronic For motor protection Size S2, Class 20E Stand-alone installation Main circuit: Straight-through transformer Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

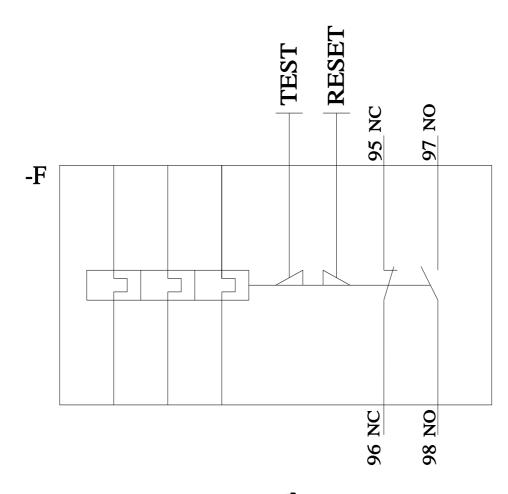
97 - 98 -			
product brand name	SIRIUS		
product designation	solid-state overload relay		
product type designation	3RB3		
General technical data			
size of overload relay	S2		
size of contactor can be combined company-specific	S2		
power loss [W] for rated value of the current at AC in hot operating 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 safe isolation in networks with grounded star point			
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V		
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V		
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V		
<ul> <li>between main and auxiliary circuit</li> </ul>	690 V		
shock resistance	15g / 11 ms		
<ul> <li>according to IEC 60068-2-27</li> </ul>	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 <sup>2</sup> ; 10 cycles		
thermal current	80 A		
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 according to IEC 81346-2	F		
Substance Prohibitance (Date)	10/15/2014		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
<ul> <li>during storage</li> </ul>	-40 +80 °C		
<ul> <li>during transport</li> </ul>	-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		
<ul> <li>at AC-3e rated value maximum</li> </ul>	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	80 A
<ul> <li>operating power</li> <li>for 3-phase motors at 400 V at 50 Hz</li> </ul>	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	integrated 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 ● at 220 V	0.3 A 0.11 A
	0.11 A
Protective and monitoring functions	
trip class	CLASS 20E electronic
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	2000 11000
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 assignment 2 required	gG: 250 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 6 A
required	•
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	81 mm
width	55 mm
depth	109 mm
Connections/ Terminals	
was dead a survey and a survey black much set for a survey black.	Mar.
product component removable terminal for auxiliary and control circuit	Yes
	Yes
and control circuit	Yes straight-through transformers
and control circuit type of electrical connection	
<ul> <li>and control circuit</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> </li> <li>arrangement of electrical connectors for main current</li> </ul>	straight-through transformers
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit	straight-through transformers spring-loaded terminals
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	straight-through transformers spring-loaded terminals
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts	straight-through transformers spring-loaded terminals Top and bottom
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid	straight-through transformers spring-loaded terminals Top and bottom 2x (0.25 1.5 mm²)
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded	straight-through transformers spring-loaded terminals Top and bottom 2x (0.25 1.5 mm²) 2x (0,25 1,5 mm²)
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing	straight-through transformers spring-loaded terminals Top and bottom 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> )
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing	straight-through transformers spring-loaded terminals Top and bottom 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> )
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing	straight-through transformers spring-loaded terminals Top and bottom 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> )

	ver tip		Pozidriv PZ 2		
Safety related data					
			IP20		
touch protection on	the front according	to IEC 60529	finger-safe, for vertical cor	ntact from the front	
<b>Communication/ Prot</b>	ocol				
type of voltage supp	type of voltage supply via input/output link master				
Electromagnetic com	patibility				
conducted interfere	nce				
	• due to burst according to IEC 61000-4-4		2 kV (power ports), 1 kV ( 3	signal ports) correspond	s to degree of severity
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>		2 kV (line to earth) corresponds to degree of severity 3			
61000-4-5	or-conductor surge ac	Ũ	1 kV (line to line) correspo	-	-
61000-4-6	quency radiation acco	-	10 V in frequency range 0 kHz	.15 to 80 MHz, modulati	on 80 % AM with 1
field-based interfere electrostatic discha	-		10 V/m 6 kV contact discharge / 8	kV air discharge	
Display					
display version for sw	vitching status		Slide switch		
Certificates/ approval	S				
General Product Ap	proval				EMC
		<u>Confirmatio</u>		EAC	RCM
For use in hazard- ous locations	Declaration of Cor	nformity	Test Certificates		Marine / Shipping
KEx ATEX	CE EG-Konf.	UK CA	<u>Special Test Certific</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping					other
Lloyds Register us	PRS	RINA	RMRS	DNV-GL	<u>Confirmation</u>
Information- and Do https://www.siemens. Industry Mall (Online	y.siemens.com/cs/ww wnloadcenter (Catal com/ic10 e ordering system) iemens.com/mall/en/e	ogs, Brochures,	) <u>?mlfb=3RB3036-2WX1</u>	3036-2WX1	
http://support.automa Service&Support (M https://support.industr	tion.siemens.com/WV lanuals, Certificates, ry.siemens.com/cs/ww	Characteristics, v/en/ps/3RB3036-2	FAQs,)	it diagrame EDI AN	acros \
Information on the p https://support.industr Information- and Do https://www.siemens. Industry Mall (Online https://mall.industry.s	y.siemens.com/cs/ww wnloadcenter (Catal com/ic10 e ordering system) iemens.com/mall/en/e	ogs, Brochures,	) <u>?mlfb=3RB3036-2WX1</u>	3036-2WX1	







2/9/2022 🖸