# SIEMENS

## **Product data sheet**

#### 3RB3036-2WD0



OVERLOAD RELAY 20...80 A FOR MOTOR PROTECTION SIZE S2,

CLASS 20E FOR MOUNTING ONTO CONTACTORS MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SPRING-T. TERM. MANUAL-AUTOMATIC-RESET

	SIRIUS
	solid-state overload relay
	S2
	3
	Yes
	Yes
	Yes
	No
	Yes
	Yes
V	690
kV	6
	IP00
	IP20
m	2,000
	kV

Vibration resistance		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
Ambient temperature		
during transport	°C	-40 +80
during storage	°C	-40 +80
during operation	°C	-25 +60
Relative humidity		
during operation	%	0 95
EMI immunity / acc. to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference / acc. to IEC 60947-1		CISPR 11, environment B (residential area)
Electrostatic discharge / acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / acc. to IEC 61000-4-3		10 V/m
Conducted interference BURST / acc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports)
Conducted interference conductor-earth SURGE		2 kV (line to ground)
Conducted interference conductor-conductor SURGE		1 kV (line to line)
Conducted interference as 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
Type of protection		II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Active power loss / total / typical	W	4.6
Size of contactor / can be combined / company-specific		S2

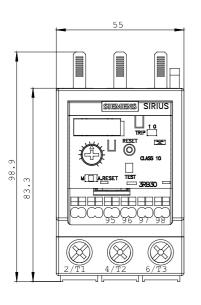
## Main circuit:

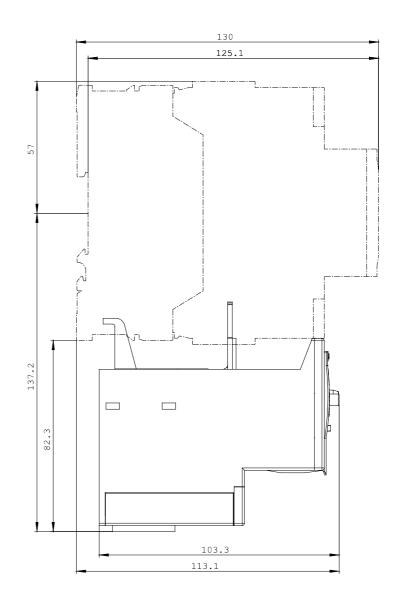
Operating voltage / Rated value	V	690
Type of voltage / for main current circuit	-	AC
Operating current		
• at AC-3 / at 400 V / Rated value	А	80
of the auxiliary contacts		
• at AC-15		
• at 24 V	А	4
• at 110 V	А	4
• at 120 V	А	4
• at 125 V	А	4
• at 230 V	А	3
• at DC-13		
• at 24 V	А	2
• at 60 V	А	0.55
• at 110 V	А	0.3
• at 125 V	А	0.3
• at 220 V	А	0.11
Type of assignment		2

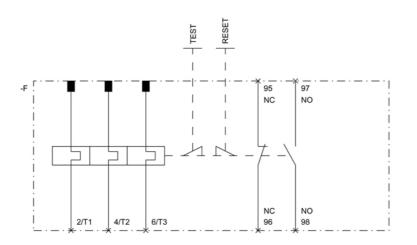
# Control circuit/ Control:

Type of voltage supply / via input/output link master		No
Type of voltage / for auxiliary and control current circuit		AC/DC
Auxiliary circuit:		
Design of the auxiliary switch		integrated
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of CO contacts / for auxiliary contacts		0
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gG: 6 A
Protective and monitoring functions:		
Design of the overload circuit breaker		electronic
Trip class		CLASS 20E
Adjustable response value current		
• of the current-dependent overload release	А	20 80
Safety related data:		
Proportion of dangerous failures		
• with low demand rate / acc. to SN 31920	%	35
Installation/ mounting/ dimensions:		
inotaliation, mounting, amonoronon		
Mounting type		direct mounting
Mounting type		direct mounting anv
mounting position	mm	direct mounting any 104
mounting position Depth	mm	any
mounting position	mm	any 104
mounting position Depth Height Width		any 104 99 55
mounting position Depth Height Width Arrangement of electrical connectors / for main current circuit	mm	any 104 99
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:	mm	any 104 99 55
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection	mm	any 104 99 55
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit	mm	any 104 99 55 Top and bottom
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit	mm	any 104 99 55 Top and bottom
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section	mm	any 104 99 55 Top and bottom
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section         • for main contacts	mm	any 104 99 55 Top and bottom screw-type terminals spring-loaded terminals
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section         • for main contacts         • single or multi-stranded	mm	any 104 99 55 Top and bottom
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section         • for main contacts         • single or multi-stranded         • finely stranded	mm	any 104 99 55 Top and bottom screw-type terminals spring-loaded terminals 1x (1 50 mm <sup>2</sup> ), 2x (1 35 mm <sup>2</sup> )
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section         • for main contacts         • single or multi-stranded         • finely stranded         • with core end processing	mm	any 104 99 55 Top and bottom screw-type terminals spring-loaded terminals 1x (1 50 mm <sup>2</sup> ), 2x (1 35 mm <sup>2</sup> ) 1x (1 35 mm <sup>2</sup> ), 2x (1 25 mm <sup>2</sup> )
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section         • for main contacts         • single or multi-stranded         • finely stranded         • with core end processing         • for AWG conductors / for main contacts	mm	any 104 99 55 Top and bottom screw-type terminals spring-loaded terminals 1x (1 50 mm <sup>2</sup> ), 2x (1 35 mm <sup>2</sup> )
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section         • for main contacts         • single or multi-stranded         • finely stranded         • with core end processing         • for AWG conductors / for main contacts         • for auxiliary contacts	mm	any 104 99 55 Top and bottom screw-type terminals spring-loaded terminals 1x (1 50 mm <sup>2</sup> ), 2x (1 35 mm <sup>2</sup> ) 1x (1 35 mm <sup>2</sup> ), 2x (1 25 mm <sup>2</sup> ) 2x (18 2), 1x (18 1)
mounting position         Depth         Height         Width         Arrangement of electrical connectors / for main current circuit         Connections/ terminals:         Design of the electrical connection         • for main current circuit         • for auxiliary and control current circuit         Type of connectable conductor cross-section         • for main contacts         • single or multi-stranded         • finely stranded         • with core end processing         • for AWG conductors / for main contacts	mm	any 104 99 55 Top and bottom screw-type terminals spring-loaded terminals 1x (1 50 mm <sup>2</sup> ), 2x (1 35 mm <sup>2</sup> ) 1x (1 35 mm <sup>2</sup> ), 2x (1 25 mm <sup>2</sup> )

<ul> <li>without core end processing</li> </ul>			1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)		
<ul> <li>with core end processing</li> </ul>			1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)		
<ul> <li>for AWG conductors / for auxiliary contacts</li> </ul>			1x (24 16), 2x (24 16)		
Full-load current (FLA) / for three-phase AC motor					
• at 480 V / Rated value		А	80		
• at 600 V / Rated value		А	80		
UL/CSA ratings:					
Contact rating / of the auxiliary contacts / acc. to UL			B600 / R300		
Certificates/ approvals:					
General Product Approval	Test Certificates				
	<u>Type Test</u> Certificates/Test Report				
Further information:					
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs					
Industry Mall (Online ordering system) http://www.siemens.com/industrymall					
Cax online generator http://www.siemens.com/cax					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RB3036-2WD0/all					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3036-2WD0					







last change:

Dec 3, 2014