## SIEMENS

## Data sheet

## 3RB3036-1WX1

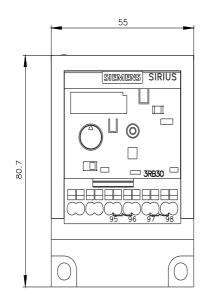


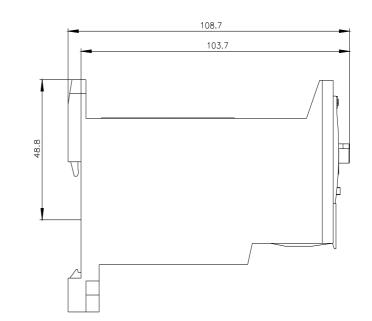
Overload relay 20...80 A Electronic For motor protection Size S2, Class 10E Standalone installation Main circuit: Straight-through transformer Auxiliary circuit: Springtype terminal Manual-Automatic-Reset

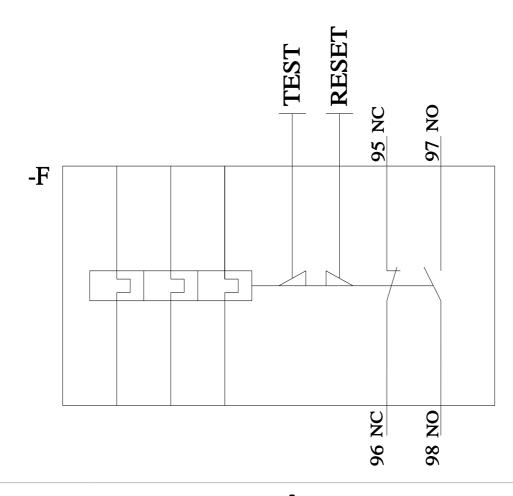
|   | SIRIUS   |  |  |  |
|---|--|--|--|--|
| product designation   |  |  |  |  |
|   | solid-state overload relay   |  |  |  |
|   | 3RB3   |  |  |  |
| General technical data  |  |  |  |  |
| size of overload relay  | \$2  |  |  |  |
| size of contactor can be combined company-specific  | \$2  |  |  |  |
| 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<br>networks with grounded star point |  |  |  |  |
| between auxiliary and auxiliary circuit   | 300 V  |  |  |  |
| • between auxiliary and auxiliary circuit   | 300 V  |  |  |  |
| between main and auxiliary circuit  | 600 V  |  |  |  |
| 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/s²; 10 cycles                              |  |  |  |
| thermal current a   | 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   |  |  |  |  |
| 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-<br>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                                 | 80 A                          |  |  |  |
| operating power   |                               |  |  |  |
| <ul> <li>for 3-phase motors at 400 V at 50 Hz</li> </ul>                          | 11 37 kW                      |  |  |  |
| <ul> <li>for AC motors at 500 V at 50 Hz</li> </ul>                               | 15 55 kW                      |  |  |  |
| <ul> <li>for AC motors at 690 V at 50 Hz</li> </ul>                               | 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 10E                     |  |  |  |
| 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 assignment 2 required  | gG: 250 A                     |  |  |  |
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> | fuse gG: 6 A                  |  |  |  |
| Installation/ mounting/ dimensions  |                               |  |  |  |
| mounting position   | any                           |  |  |  |
| fastening method  | any stand-alone installation  |  |  |  |
| height  | 81 mm                         |  |  |  |
| width   | 55 mm                         |  |  |  |
| depth   | 109 mm                        |  |  |  |
| Connections/ Terminals  |                               |  |  |  |
|   | Voc                           |  |  |  |
| product component removable terminal for auxiliary and<br>control circuit         | Yes                           |  |  |  |
| type of electrical connection   |                               |  |  |  |
| for main current circuit  | straight-through transformers |  |  |  |
| for auxiliary and control circuit   | spring-loaded terminals       |  |  |  |
| arrangement of electrical connectors for main current                             | Top and bottom                |  |  |  |
| circuit   |                               |  |  |  |
| type of connectable conductor cross-sections                                      |                               |  |  |  |
| <ul> <li>for auxiliary contacts</li> </ul>  |                               |  |  |  |
| — solid   | 2x (0.25 1.5 mm²)             |  |  |  |
| — solid or stranded   | 2x (0,25 1,5 mm²)             |  |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>                      | 2x (0.25 1.5 mm²)             |  |  |  |
| - finely stranded without core end processing                                     | 2x (0.25 1.5 mm²)             |  |  |  |
| for AWG cables for auxiliary contacts   | 1x (24 16), 2x (24 16)        |  |  |  |
| design of screwdriver shaft   | Diameter 5 to 6 mm            |  |  |  |
|   |                               |  |  |  |

| size of the screwdrive   | r tip  |   | Pozid   | Pozidriv PZ 2   |   |                          |  |
|--|--|---|---|---|---|--------------------------|--|
| Safety related data  |  |   | _   |   |   |                          |  |
| protection class IP on the front according to IEC 60529  |  |   |   |   |   |                          |  |
| touch protection on th   | e front according to IEC   | 60529   | finger  | finger-safe, for vertical contact from the front                            |   |                          |  |
| <b>Communication/ Protoc</b>   | ol   |   | _   |   |   |                          |  |
| type of voltage supply via input/output link master  |  |   | No  |   |   |                          |  |
| Electromagnetic compa  | tibility   |   |   |   |   |                          |  |
| conducted interference   | e  |   |   |   |   |                          |  |
| <ul> <li>due to burst accord</li> </ul>  | <ul> <li>due to burst according to IEC 61000-4-4</li> </ul>  |   |   | 2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 |   |                          |  |
| <ul> <li>due to conductor</li> </ul>   | • 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-frequ<br>4-6   | ency radiation according to  | DIEC 61000-   | 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz |   |   |                          |  |
| field-based interference   | ce according to IEC 6100   | 0-4-3   | 10 V/   | n   |   |                          |  |
| electrostatic discharge  | electrostatic discharge according to IEC 61000-4-2   |   |   | contact discharge / 8 kV  | air discharge                               |                          |  |
| Display  |  |   |   |   |   |                          |  |
| display version for swite  | ching status   |   | Slide   | switch  |   |                          |  |
| Certificates/ approvals  | -  |   |   |   |   |                          |  |
| General Product App  | roval  |   |   |   |   | EMC                      |  |
|  |  |   |   |   |   |                          |  |
|  |  | <u>Confirmatio</u>  | <u>n</u>  | Ű   | EHC   | RCM                      |  |
| For use in hazard-<br>ous locations  | Declaration of Conform   | nity  |   | Test Certificates   |   | Marine / Shipping        |  |
| KEX<br>ATEX  | CE<br>EG-Konf.   | UK<br>CA  |   | <u>Type Test Certific-</u><br>ates/Test Report                              | <u>Special Test Certific-</u><br><u>ate</u> | ABS                      |  |
| Marine / Shipping  | Marine / Shipping  |   |   | other   |   |                          |  |
| Lloyd's<br>Register<br>us  | PRS  | RINA  |   | DNV-GL<br>DNV-GL  | <u>Confirmation</u>                         |                          |  |
|  |  |   |   |   |   |                          |  |
| Further information  |  |   |   |   |   |                          |  |
|  | to exit the Russian mark   | et (see here).  |   |   |   |                          |  |
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| Industry Mall (Online on https://mall.industry.sier  | ordering system)<br>mens.com/mall/en/en/Cata   | log/product?mlfb=   | <u>=3RB30</u>   | <u>36-1WX1</u>  |   |                          |  |
| Service&Support (Mar   | n.siemens.com/WW/CAXc<br>nuals, Certificates, Chara<br>siemens.com/cs/ww/en/ps   | cteristics, FAQs  | s,)   | en&mlfb=3RB3036-1WX   | 1   |                          |  |
|  | uct images, 2D dimensio  |   |   | device circuit diagram  | s, EPLAN macros,)                           |                          |  |
| http://www.automation.s<br>Characteristic: Trippir   | siemens.com/bilddb/cax_dong characteristics, I <sup>2</sup> t, Let   | e.aspx?mlfb=3RB<br>-through curren  | <u>33036-1'</u><br>I <b>t</b>   | WX1⟨=en   |   |                          |  |
| Further characteristic   | siemens.com/cs/ww/en/ps<br>s (e.g. electrical enduran<br>siemens.com/bilddb/index.   | ce, switching fre   | equency   | 1)<br>=3RR3036 11/1/218 abiaa   | thype=148.gridview=view4                    |                          |  |
| mup.//www.automation.s   | semens.com/bildab/index.i  | aspx:view=Seglo   |   | -31XD3030-199A 1&00JEC  | <u>uype-14agnuview=vieW1</u>                |                          |  |







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