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| Proprietary Information of:  POWER SOLUTIONS & PROTECTION a bel group | Title: EN 50155 Declaration of Conformity | Document No. URR.20192 | Rev. A |
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Declaration of Conformity

We, Bel Fuse Inc., hereby declare under our sole responsibility that the products herein after referred to are in compliance with the **EN 50155:2021**.

Manufacturer/Address: **Bel Fuse Inc.**
300 Executive Drive
Suite 300
West Orange, NJ 07052

Product: **Switching Regulator**

Type Designation: **PSA/PSR Series**
 (Refer to Annex 1 listing affected part numbers)
PSB Series
 (Refer to Annex 2 listing affected part numbers)
PSC/PSL Series
 (Refer to Annex 3 listing affected part numbers)

Standard(s): **EN 50155:2021**
EN 50124-1:2017
EN 50125-1:2014
EN 50121-3-2:2016
EN 60529:1991
EN 61373:2010
EN 45545-2:2020
 (Refer to Table 4 listing achieved compliance)

Prepared by:



Dubnica nad Váhom, Slovakia

May 14th, 2024

Marian Hostačný, Engineering Manager

Approved by:



Uster, Switzerland

May 14th, 2024

Silvan Mueller, Business Development Manager

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Annex 1: Product part number description PSA/PSR

| No. | P/N | No. | P/N |
|-----|------------|-----|------------|
| 1 | PSA5K5A-7 | 23 | PSA121.5-7 |
| 2 | PSA5K5A-9 | 24 | PSA12Z3D-7 |
| 3 | PSA5F4A-9 | 25 | PSA12Z3D-9 |
| 4 | PSA5C4A-9 | 26 | PSA12Z3C-7 |
| 5 | PSA5C3-7 | 27 | PSA12Z3A-9 |
| 6 | PSA5B5-7 | 28 | PSA121.5-7 |
| 7 | PSA5A5A-7 | 29 | PSA121.5-9 |
| 8 | PSA5A5A-9 | 30 | PSR5Z3B-9 |
| 9 | PSA5A4-7 | 31 | PSR54-7 |
| 10 | PSA55-7 | 31 | PSR54-9 |
| 11 | PSA55-9 | 33 | PSR53-7 |
| 12 | PSA481-7 | 34 | PSR53-9 |
| 13 | PSA481-9 | 35 | PSR52-7 |
| 14 | PSA42Z2A-7 | 36 | PSR362-7 |
| 15 | PSA42Z2A-9 | 37 | PSR362-9 |
| 16 | PSA361-7 | 38 | PSR242-7 |
| 17 | PSA361-9 | 39 | PSR242-9 |
| 18 | PSA24Z2D-9 | 40 | PSR152.5-7 |
| 19 | PSA241.5-7 | 41 | PSR152.5-9 |
| 20 | PSA241.5-9 | 42 | PSR122.5-7 |
| 21 | PSA151.5-7 | 43 | PSR122.5-9 |
| 22 | PSA151.5-9 | | |

Note: model names may be followed by suffix indicating non-critical options.

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Annex 2: Product part number description PSB

| No. | P/N | No. | P/N |
|-----|------------|-----|----------|
| 1 | PSB5A7-7 | 22 | PSB123-7 |
| 2 | PSB5A7-9 | 23 | PSB123-9 |
| 3 | PSB5A6-7 | 24 | |
| 4 | PSB5A6-9 | 25 | |
| 5 | PSB483A-7 | 26 | |
| 6 | PSB483A-9 | 27 | |
| 7 | PSB483-7 | 28 | |
| 8 | PSB483-9 | 29 | |
| 9 | PSB365-7 | 30 | |
| 10 | PSB365-9 | 31 | |
| 11 | PSB25Z5A-7 | 31 | |
| 12 | PSB25Z5A-9 | 33 | |
| 13 | PSB245-7 | 34 | |
| 14 | PSB245-9 | 35 | |
| 15 | PSB243-7 | 36 | |
| 16 | PSB243-9 | 37 | |
| 17 | PSB155-7 | 38 | |
| 18 | PSB155-9 | 39 | |
| 19 | PSB153-7 | 40 | |
| 20 | PSB125-7 | 41 | |
| 21 | PSB125-9 | 42 | |

Note: model names may be followed by suffix indicating non-critical options.

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Annex 3: Product part number description PSC/PSL

| No. | P/N | No. | P/N |
|-----|------------|-----|------------|
| 1 | PSC5A12-7 | 23 | PSL5F12A-7 |
| 2 | PSC5A12-9 | 24 | PSL5A12-7 |
| 3 | PSC5A10A-7 | 25 | PSL5A12-9 |
| 4 | PSC5A10A-9 | 26 | PSL5A10-7 |
| 5 | PSC486-7 | 27 | PSL5A10-9 |
| 6 | PSC486-9 | 28 | PSL486-7 |
| 7 | PSC368-7 | 29 | PSL486-9 |
| 8 | PSC368-9 | 30 | PSL368-7 |
| 9 | PSC366-7 | 31 | PSL368-9 |
| 10 | PSC366-9 | 31 | PSL366-7 |
| 11 | PSC248-7 | 33 | PSL366-9 |
| 12 | PSC248-9 | 34 | PSL248-7 |
| 13 | PSC246-7 | 35 | PSL248-9 |
| 14 | PSC246-9 | 36 | PSL246A-9 |
| 15 | PSC158-7 | 37 | PSL246-7 |
| 16 | PSC158-9 | 38 | PSL246-9 |
| 17 | PSC156-7 | 39 | PSL158-7 |
| 18 | PSC156-9 | 40 | PSL158-9 |
| 19 | PSC128-7 | 41 | PSL128-7 |
| 20 | PSC128-9 | 42 | PSL128-9 |
| 21 | PSC126-7 | 43 | PSL126-7 |
| 22 | PSC126-9 | 44 | PSL126-9 |

Note: model names may be followed by suffix indicating non-critical options.

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Table 4: Compliance status

| Subclause | Title | Default requirement | Product compliance |
|-----------|---------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 4.4.1 | Altitude | Class A1 (1400 metres) Table 1 of EN 50125-1 | Fulfilled (AX - 2000 metres) |
| 4.4.2 | Operating temperature | Table1: Class OT3 (-25 to +71 degC) | Fulfilled T _A option -7 & T _A option -9 (OT4) |
| 4.4.3 | Switch-on extended op. temp. | Table2: Class ST1 (Test cycle B) | Fulfilled (ST1) |
| 4.4.4 | Rapid temperature variation | Table3: Class H1 (No requirements), | Fulfilled (H1) |
| 4.4.5 | Shock and Vibration | Category 1; Class B of EN 61373:2010 | Fulfilled |
| 4.4.6 | Electromagnetic compatibility | In compliance with EN 50121-3-2:2016 | Fulfilled |
| 4.4.7 | Relative humidity | In compliance with EN 50125-1:2014 | Fulfilled |
| 4.5.2 | Atmospheric pollutants | No requirements applies by default | Fulfilled (Salt Mist per EN 50155:2017, clause 13.4.13) |
| 5.2.2 | The nominal voltage of equipment (Un) | Either of following values: 24 V, 28 V, 36 V, 48 V, 72 V, 96 V, 110 V | Fulfilled (24V, 36V, 48V, 72V, 96, 110V) |
| 5.2.2 | Continuous DC power supply range | Table4: 0.7 x Un – 1.25 x Un | Fulfilled |
| 5.2.3 | Temporary DC power supply fluctuation | Table4: 0.6 x Un – 1.4 x Un (for 100msec) | Fulfilled |
| 5.2.4 | Interruption of supply voltage | Table5: Class S2 (10 msec) | Fulfilled (S2) |
| 5.2.5 | Supply change-over | Table6: Class C1 | Fulfilled (C1) |
| 5.2.7 | DC ripple factor | Ripple factor of +/- 5% | Fulfilled (+/-5%) |
| 6.2 | Useful life | Class L4 | Fulfilled (L4) |
| 6.3.2 | Preventive maintenance | No periodic maintenance applies | Fulfilled (No maintenance required) |
| 7.2.1 | Insulation Coordination | Pollution degree PD2 of EN 50124-1:2017 | Fulfilled (PD2) |
| | | Table 13 (13.4.7): Insulation & withstand tests voltages shall be applied | Fulfilled |
| 10.2.1 | Electronic assembly acceptability | Class 2 according to IPC-A-610G | Fulfilled (Class 2) |
| 10.2.5 | IC Sockets and Edge connectors | Class K2 (not allowed) | Fulfilled (K2) |
| 10.7 | Protective coatings for PCB's | Class PC2 | Fulfilled (PC2) |
| 10.9 | Mounting | Enclosure shall provide the necessary protection (IP code acc to EN60529:1991) | Fulfilled (IP40) |
| 10.10 | Cooling and ventilation | Forced ventilation for cooling is not allowed | Fulfilled (No forced cooling) |
| 11.4 | Fire behaviour requirements | Fire behaviour testing shall be according to EN 45545-2:2020. | Fulfilled (Hazard level 3) |
| 12.7.8.3 | Programmable Component | Table10: Class M0 | Not Applicable (No user programmable components) |