

INDUSTRIAL CURTAIN SWITCHBOARD **STAVOKLIMA**
Installation and operation manual

UNIREG-BMS model

EN



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Explanation of symbols used

| | | | |
|---|---|---|--|
|  | Instructions for mechanical repairs and maintenance. |  | Important safety information, technical information, data and device output. |
|  | Important electric information - read carefully - unit damage hazard in case of wrong installation. |  | Important information - please read carefully. |

2. Safety measures



The switchboard has been manufactured in line with the government decrees and Czech standards harmonized with the EU regulations mentioned in the manufacturer's declaration of conformity.

The above mentioned product complies with the following standards:

ČSN EN 60335-1 ed.3 ČSN EN 60335-2-30 ed. 3
 ČSN EN IEC 61000-6-2 ed. 4 ČSN EN 61000-6-3 ed. 2

The above mentioned product complies with the following directives:

- Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of eco-design requirements for energy-related products.
- Government Decree No. 118/2016 Coll. Directive 2014/35/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.
- Government Decree No. 117/2016 Coll. Directive 2014/30/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.
- Government Decree No. 481/2012 Coll. (Regulation of the European Parliament and of the Council No. 2014/35/EU, Regulation of the European Parliament and of the Council No. 2011/65/EU).
- Government Decree on restriction the use of some hazardous materials found in electrical and electronic products.

Observe generally applicable national provisions and other related regulations. Unplug the unit from mains before any service intervention. Connection and earthing of the electric device or components thereof must be in line with laws applicable in the country of use. Only qualified staff may carry out any electric service works.



Observe applicable laws, in particular:

- on safety of electric and thermal appliances,
- on central heat distribution systems,
- on fire safety.

3. Description of switchboard

- suitable for wall-mounting,
- designed to control hot water Stavoklima air units with 230V AC or EC fans,
- the option for the AC fans may be controlled by 3-level switch located on the switchboard body or using an external superior 3-level system (BMS),
- the option for EC fans may be controlled only using an external superior system (BMS) with 0–10V control signal,
- electric components for curtain control with accessories housed in plastic cabinet with ventilation holes,
- fitted with circuit breakers and performance components,
- ready for control by door contact (SELV potential-free contact),
- operation and failure signalling (SELV potential-free contact),
- output for control of electrothermic 2-way or 3-way 230V "NO" valve,
- ready for possible connection of a spatial thermostat,
- unit AC fan rundown with 30s rundown time,
- unit EC fan rundown may be configured from 10 to 80s using DIPP1.

| Type of control | UNIREG – BMS-A | | | | | UNIREG - BMS EC |
|--------------------------------------|----------------|-----|-----|----------------|------|-----------------|
| | 4,5 | 6 | 9 | 14 | 30 | |
| Designed for max curtain(s) current | 4,5 A | 6 A | 9 A | 14 A | 30 A | 14 A |
| Unit power supply | 230 V | | | | | 230 V |
| Control signal | - | | | | | 0-10 V |
| Revolutions control levels | 0-1-2-3 | | | | | - |
| IP rating | IP 20 | | | | | IP 20 |
| Dimensions (length x width x height) | 300x400x170 mm | | | 400x600x210 mm | | 300x400x170 mm |

4. Switchboard function for the AC fans

- The controlled by 3-level switch located on the switchboard body or using an external superior 3-level system (BMS).
- Switch in Automat position – the device is on and controlled via the superior external system (BMS).
- Switch in 0 position – the device is off.
- Switch in 1 position – revolutions speed level 1 enabled.
- Switch in 2 position – revolutions speed level 2 enabled.
- Switch in 3 position – revolutions speed level 3 enabled.

5. Switchboard function for the EC fans

- The controlled only using an external superior system (BMS) with 0–10V control signal.
- Turning on and off the device via the superior external system (BMS) only.

6. Switchboard operation for the AC fans

- If you set the switch to “Automat” position, the device is controlled via the superior external system (BMS) through which you control the required fan revs and heating.
- To turn the device off, set the switch to “0” position.
- To turn on and control the unit manually, select the required fan speed “0-1-2-3” using the switch.
- In the event of a sudden power failure, the air curtain will restart in the mode set on the controller when power is restored.
- The ambient temperature must range between 10 and 35 °C.
- Designed for industrial environment.

7. Switchboard operation for the EC fans

- The device is controlled via the superior external system (BMS) through which you control the required fan revs and heating.
- The ambient temperature must range between 10 and 35 °C.
- Designed for industrial environment.



Before any work with the unit, disconnect the electric power at the main circuit-breaker. Electric shock hazard!!

8. Decommissioning – disposal

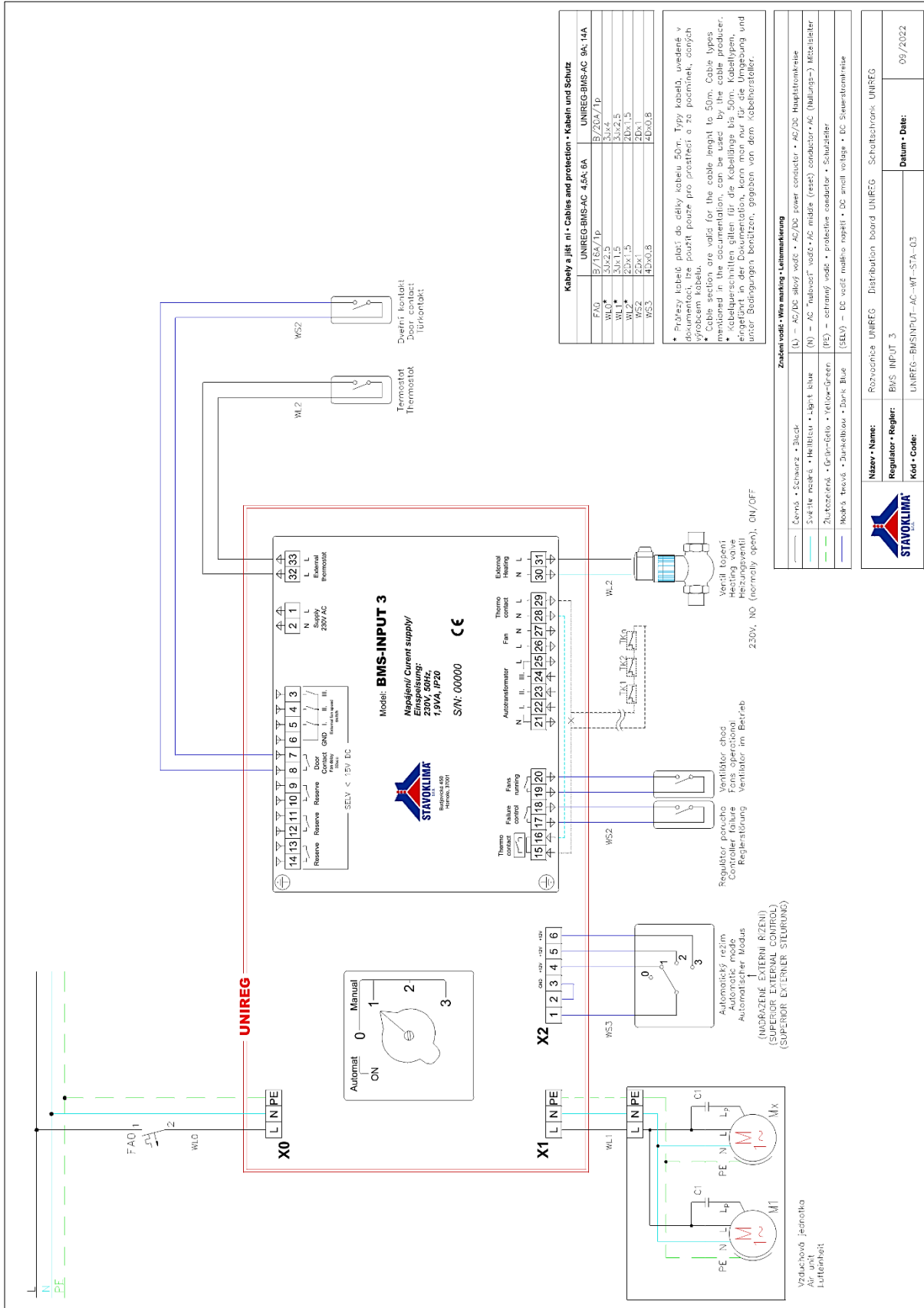


After the expiration of the service life, the switchboard must be disassembled and disposed of. Only qualified company may disassemble the device. The product or components thereof must be disposed in environmentally-friendly manner at the end of its service life.

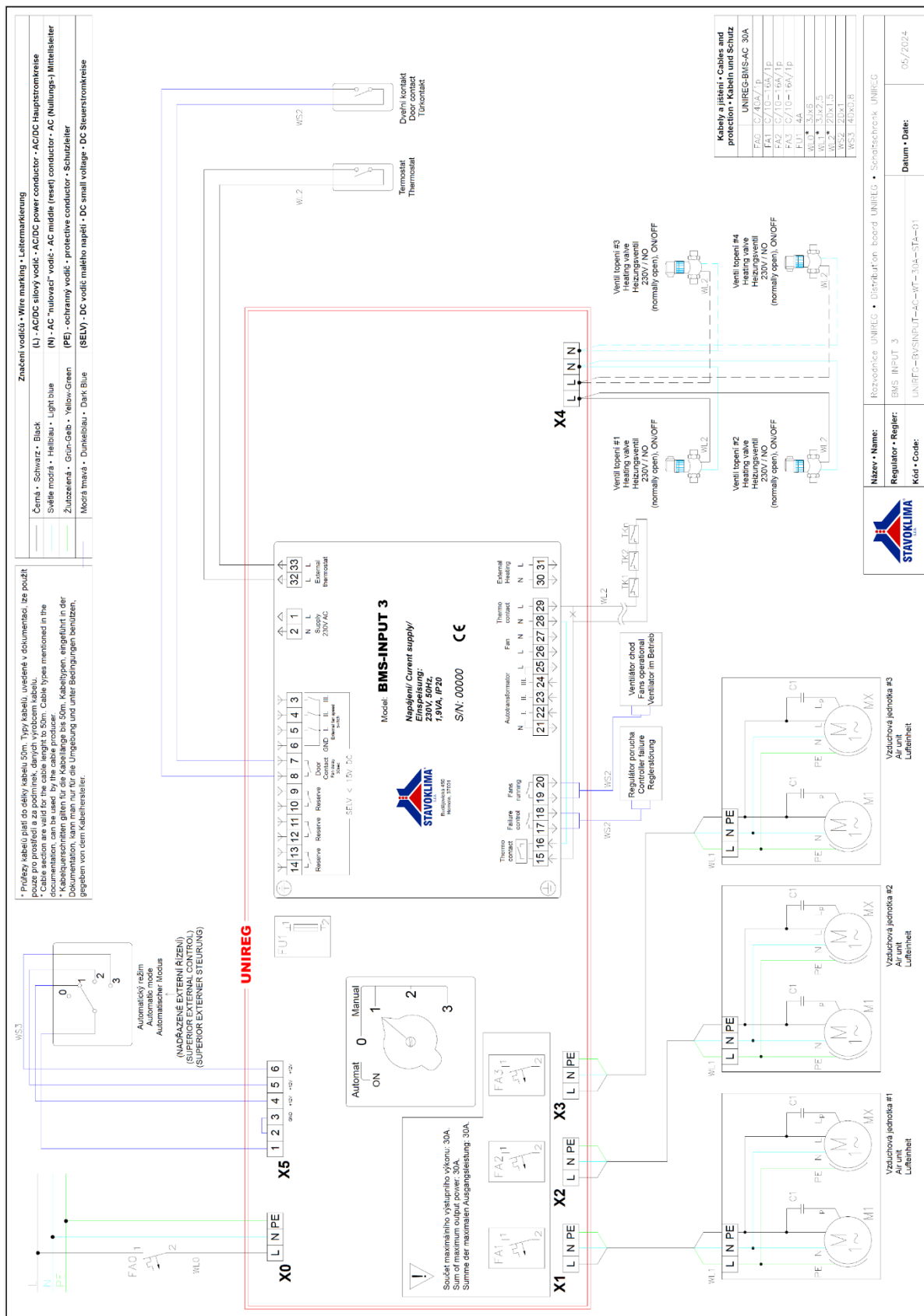
The components of the unit must be separated and sorted out by type of material for disposal. Dispose of the metal and plastic components at your local collection yard. The transport packaging of the product is made of common recyclable material (paper, polyethylene, wood) and is labelled as such according to ČSN 77 0052-2.

As far as disposal is concerned, it is operator’s responsibility to comply with applicable national provisions in the country of use. In addition, follow regulations and laws of your country applicable to waste disposal. Separated collection and recycling of the products may help to protect environment and human health.

9. UNIREG – BMS-A switchboard wiring scheme



10. UNIREG – BMS-A 30 A switchboard wiring scheme





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