



reventon

INDUSTRIAL SOLUTIONS

TECHNICAL DOCUMENTATION
DOKUMENTACJA TECHNICZNA
ТЕХНИЧЕСКАЯ ДОКУМЕНТАЦИЯ
TECHNISCHEDOKUMENTATION

ROOF FAN
WENTYLATOR DACHOWY
КРЫШНЫЕ ВЕНТИЛЯТОРЫ
DACHVENTILATOR

MODELS / MODELE / МОДЕЛИ / MODELLE:



STORM 190 AC

STORM 225 EC

STORM 315 EC

STORM 355 EC

STORM 450 EC

STORM 500 EC



1. INTRODUCTION

1.1 GENERAL INFORMATION

The owner and the user of unit Reventon brand should read carefully this instruction and follow included guidelines. In case of any doubts, please reach out directly to the manufacturer i. e. company Reventon Group Sp. z o.o.



The key recommendations from safety point of view are marked with the warning triangle (like the one on the left). It enables quick and easy localization of these recommendations and remind of them before interference with the unit.



For the same reason, the requirements for periodic inspection and maintenance of the device, are marked with the wrench symbol (like the one on the left).



During installation, usage or maintenance of the fan, all local safety requirements must be respected.

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1.2 STORAGE AND TRANSPORT

The product must be kept and transported on an appropriate pallet, in ambient temperature ranging from -25°C to 60°C and relative humidity ≤ 90%.

1.3 APPLICATION

The STORM device is designed for external usage, on roofs buildings like production halls, warehouses, logistic centers, workshops, etc. However, the device should not be used to remove dust or aggressive and explosive chemicals. The device is not intended for removing dust or aggressive or explosive chemicals and should not be used in corrosive, highly dusty (above 0.3 g/m³), high-humidity environments (over 90% RH) or in environments with water exposure exceeding the IP rating (see next section).

2. DEVICE CHARACTERISTICS

2.1 IP RATING

IP rating determines the tightness of the electrical device (like a fan motor), which is defined by two digits:

- **first characteristic digit** - specifies protection of the device against direct access to its interior as well as against penetration of smaller solids (such as dust)
- **second characteristic digit** - determines resistance of the engine to water ingress, i. e. its waterproofness

The motor of the STORM with IP 54 has the following protection:

- enclosure protected against ingress of dust in harmful quantities,
- water splashed against the enclosure from any direction shall have no harmful effects.

The motor of the STORM with IP 44 has the following protection:

- enclosure protected against solid objects over 1 [mm],
- water splashed against the enclosure from any direction shall have no harmful effects.

2.2 CONSTRUCTION AND PRINCIPLE OF OPERATION

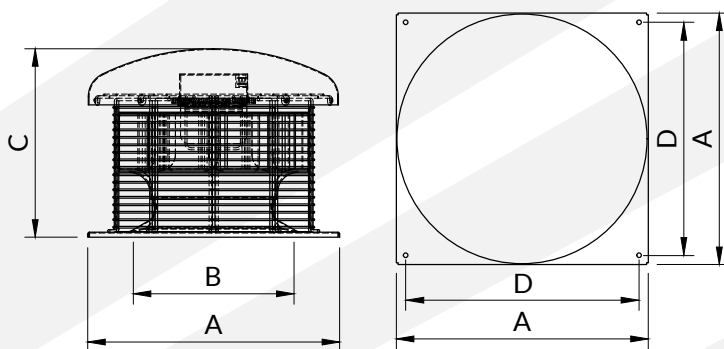
Roof fan base: made of composite - lightweight, weather-resistant material. It enables easy installation of the device with fan/base adapter plate to the roof base. It has also a flange which protects an interior of a building against the water, which otherwise could get into a room with the outlet in the base.

Grid: made of galvanized steel wire. It is a structural element of the fan – the exhaust fan and the protecting roof are fixed to it. It protects the rotor from unauthorized access, animals, leaves, and other debris.

Centrifugal AC fan (for STORM AC devices): made of plastic. The air is sucked in from the axial direction and extracted radially with backward curved rotor blades. The fan is fixed to the grid.

Centrifugal EC fan (for STORM EC devices): made of plastic (STORM 225 EC) or aluminium (STORM PRO 315 EC, STORM 355 EC, STORM 450 EC and STORM 500 EC). The air is sucked in from the axial direction and extracted radially with backward curved rotor blades. The fan is fixed to the grid.

2.3 DIMENSION



[mm]	A	ØB	C	D
STORM 190 AC	350±1	123±2	190±5	310

[mm]	A	ØB	C	D
STORM 225 EC	350±1	144±2	230±5	310
STORM 315 EC	500±1	210±2	320±5	420
STORM 355 EC	500±1	240±2	360±5	420
STORM 450 EC	700±1	412±2	450±5	620
STORM 500 EC	700±1	450±2	560±5	620

2.4 TECHNICAL DATA

TECHNICAL DATA Product code	STORM 190 AC STORM190AC-2017
Maximum airflow [m ³ /h]	450
Supply voltage [V] / Supply frequency [Hz]	1~ 230/50
Rated motor current [A]*	0.26
Rated motor speed [rpm]*	2380
Rated motor power [W]*	60
Motor power at maximum airflow [W]	59
IP Rating [-]	54
Insulation class [-]	F
Net weight [kg]	8
Noise [dB]**	55

* the rated values are specified for the best efficiency point of the fan (BEP)

** the measurement at the distance of 5 m from the device

TECHNICAL DATA Product code	STORM 225 EC STORM225EC-1983	STORM 315 EC STORM315EC-1984	STORM 355 EC STORM355EC-2019	STORM 450 EC STORM450EC-2334	STORM 500 EC STORM500EC-2335
Maximum airflow [m³/h]	880	2250	3910	7340	13800
Supply voltage [V] / Supply frequency [Hz]	1~ 230/50	1~ 230/50	1~ 230/50	3~ 400/50	3~ 400/50
Rated motor current [A]*	0.50	1.10	2.60	1.67	4.95
Rated motor speed [rpm]*	2200	1700	2100	1426	1512
Rated motor power [W]*	60	162	580	925	2334
Motor power at maximum airflow [W]	60	160	420	1010	3060
IP Rating [-]	54	54	54	44	44
Insulation class [-]	F	F	F	F	F
Net weight [kg]	8	12	15.8	30	51.5
Noise [dB]**	55	54	52	68	85

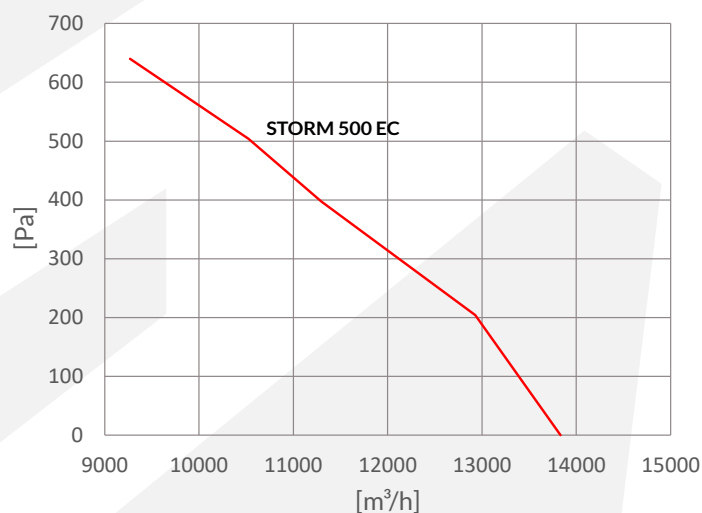
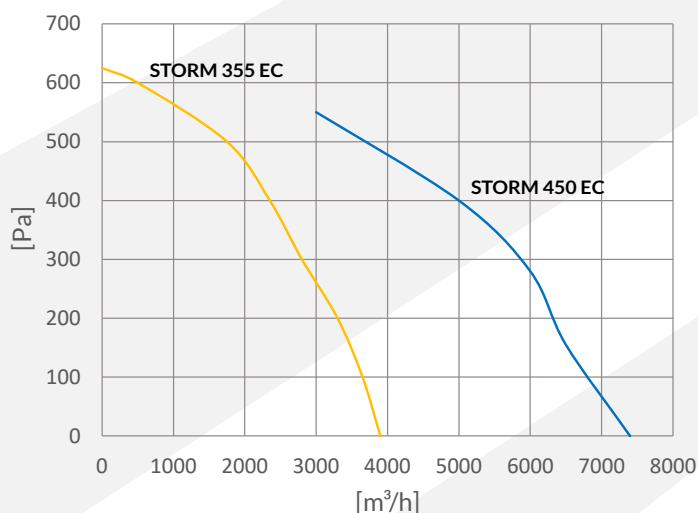
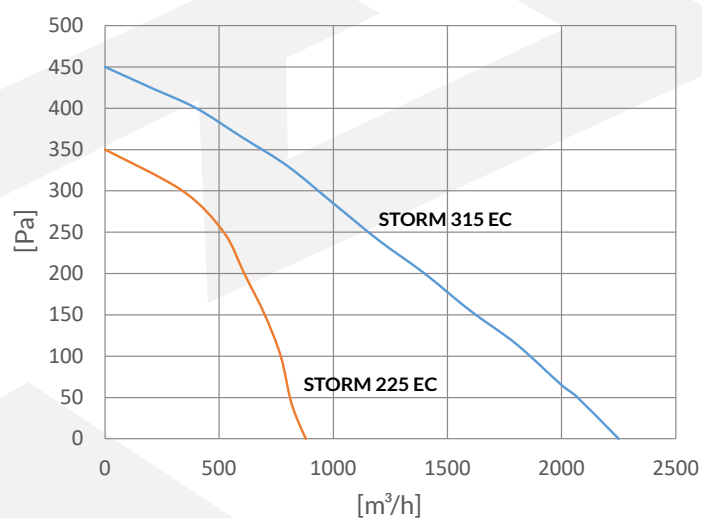
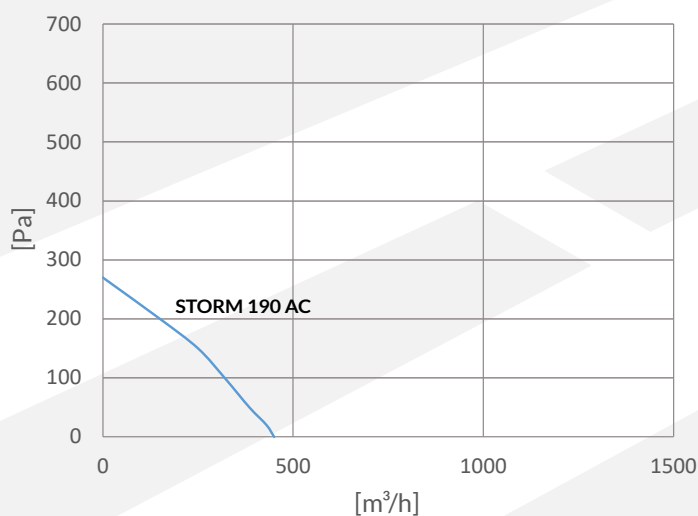
* the rated values are specified for the best efficiency point of the fan (BEP) in accordance with Regulation (EU) 2024/1834

** the measurement at the distance of 5 m from the device



Information about the fans according to Regulation (EU) 2024/1834 can be found by scanning the QR code or using the link below.
<https://reventongroup.eu/pdf/erp/storm.pdf>

2.5 WORKING CHARACTERISTICS



3. INSTALLATION PRINCIPLES

3.1 GENERAL INSTALLATION REQUIREMENTS

 The roof fan should be installed and uninstalled by two person who must be familiar with this instruction and must be experienced in installations of such products. If local law requires it, installers must also have appropriate qualifications (e.g. permission to work on height).

 It is the responsibility of the installers to carry out the installation according to the guidelines from this instruction and in accordance with the local regulations in force.

The roof fan should not be installed directly on a roof - it is designed for mounting on the square roof base with the fan / base adapter plate. Constructions dedicated for roof fan STORM series can be found in Reventon Group offer.

 Before installing the roof base and the roof fan, it must be verified that the building partition on which these elements are to be installed has sufficient load-bearing capacity for their total weight.

The roof fan can be used as part of a decentralised ventilation system or as part of a ducted ventilation system. In the latter case, please note that the actual airflow of the device will be lower than the maximum airflow due to flow resistance in the ducts, according to the performance characteristics specified in point 2.5.

4. GENERAL WIRING AND CONNECTIONS PRINCIPLES

4.1 GENERAL SAFETY PRECAUTIONS

 Before connecting the unit to an electrical installation, it must be installed permanently to a suitable partition (according to the recommendations contained in the section 3).

 All installation, repairs and uninstallation works must be performed by qualified persons, i.e. having the appropriate qualifications for these works. It is the responsibility of the installer to make the installation according to the guidelines from this instruction and in accordance with the local regula

 Do not install, service or operate the device with wet hands or barefoot.

4.2 WIRING REQUIREMENTS

 The electrical installation must be carried out in accordance with the state of the art and the local regulations in force.

 The electrical connection should be made in accordance with the wiring diagram provided on pages 19-24 and must conform to the electrical parameters specified in section 2.4.

 The type and cross-sectional area of the cable are specified in the wiring diagrams provided on pages 19-24.

 The electrical circuit supplying the device must include all protective elements required by applicable regulations, as well as an ON/OFF switch enabling safe isolation of the device fan from the electrical supply.

5. START-UP AND OPERATION

5.1 START-UP PRECAUTIONS & PROCEDURES

 The user is obliged to be familiar with this instruction before start-up of the device.

 Before the start-up, it is required to check the electrical installation and controls in terms of damaged insulation, incorrect connection in the terminals, risk of potential short circuits, etc. In case of any malfunctions immediately cut off the device from the electrical system and contact directly with the installer, the manufacturer or the distributor.

The device must be switched on and checked for correct operation, i.e.:

- whether the fans operate steadily and uniformly,
- whether the control system operates correctly, i.e. in accordance with the parameters set on the controller and/or the signals from switches and sensors.

If any of the above conditions is not fulfilled, contact directly with the installer, the manufacturer or the distributor.

5.2 OPERATION PRINCIPLES

 The user is obliged to be familiar with this instruction before operation of the device.

 It is forbidden to touch the device during operation. Before any interference in the device, the electricity supply to the device fan must be absolutely cut off and ensure that it cannot be switched back on. Wait until the device comes to a stop. After finishing work, remove any tools or other objects from

 The device cannot be operated by children or adults with reduced mobility, sensory or intellectual disability. Access to the device by unauthorised people, children and animals is forbidden and should be prevented or at least hindered.

 The device cannot work with covered or restricted air inlet or outlet (e. g. as a result of not keeping the minimum distances from partitions or obstructed inlet/outlet).

 The unit is designed for handling of air at temperature ranging from -25°C to 60°C and with relative humidity ≤ 90%.

 In case of any malfunctions (like blow a fuse, unusual noise etc.) immediately cut off the device from the electrical system and contact directly with the installer, the manufacturer or the distributor. It is forbidden to turn on the unit before diagnosing and removing the reason of this malfunction.

 The EC motor starts when the control signal reaches the specified threshold value. For the STORM 225 EC and STORM 355 EC models, the start-up voltage is 1.0 V. For the STORM 315 EC model, it is 0.5 V, while for the STORM 450 EC and STORM 500 EC models, it is 2.0 V - however, for lower values of voltage the fan still remains under voltage and can also rotate. Before any interference in the device, the electricity supply to the device must be absolutely cut off.

 If the device is not used for a longer time, disconnect the unit from the electrical installation.

 Inspection and maintenance of the fan should be carried out by a user who is familiar with this instruction or by an external entity if due to the way of assembly or local regulations additional authorisations like e. g. working with electricity or at heights are required.

 Periodical inspection and maintenance of the device according to the guidelines below, should be carried out at the specified frequency and always after two-weeks or a longer period of inactivity.

 Before starting any maintenance work, the roof fan must be disconnected from the power supply.

 At the periodic inspection and maintenance, the following should be successively done:

- at least twice every year, check the condition of the wiring for its damage and remove/repair any damage,
- at least twice every year, verify air inlet and outlet, and remove/repair any damage, if there are any restriction or contamination, remove them,
- clean the remaining elements from residue with a soft cloth at least twice every year,
- at least once per year, connect the device to the power supply and assess if the fan works correctly; additional murmur, metallic reverberation, grinding noise, vibration etc. says about a malfunction in such case, immediately cut off the device from the electrical system and contact directly with the installer, the manufacturer or the distributor

 The frequency of the service should depend on the actual dirtiness - if the device is operating in an environment with a high concentration of dust, periodic cleaning should be performed much more often.

 At the end of its service life, the device must be removed and disposed of in accordance with local regulations. Dismantling instructions are available via the QR code (on the left) or at the link below.

<https://reventongroup.eu/pdf/lang/dismounting/storm.pdf>

6. CONTROLS

Using of control dedicated to STORM PRO gives vast possibilities of adjusting the efficiency of the unit in different degree of automation, depending on the needs.

The list of compatible controllers is provided below. Detailed controllers parameters and instructions can be found by scanning the QR code or opening the link.

STORM AC

 **FAN SPEED CONTROLLER**
(product code depending on the maximum current load: FSHC-1520/FS14HC-1610/FS3HC-2104/FS5HC-1607/FS7HC-1608)
<https://reventongroup.eu/pdf/lang/manuals/speedcontrollerhc.pdf>

 **THYRISTOR FAN SPEED CONTROLLER**
(product code: FS-TRO150-2054)
<https://reventongroup.eu/pdf/lang/manuals/controllertro.pdf>

 **PROGRAMMABLE CONTROLLER HMI SINGLE BMS**
(product code HMI-SIN-2021)
<https://reventongroup.eu/pdf/lang/manuals/hmisinglebms.pdf>

STORM EC

 **POTENTIOMETER EC**
(product code PEC-2444)
<https://reventongroup.eu/pdf/lang/manuals/potentiometerec.pdf>



PROGRAMMABLE CONTROLLER HMI EC BMS
(product code HMI EC-1997)
<https://reventongroup.eu/pdf/lang/manuals/hmiecbs.pdf>

ADDITIONAL ACCESSORIES



RELAY MODULE RM-16A
(product code RM16A-2343)
<https://reventongroup.eu/pdf/lang/manuals/rm16a.pdf>



MAINTENANCE ON/OFF SWITCH
(product code MS230-2419)
<https://reventongroup.eu/pdf/lang/manuals/ms.pdf>



MAINTENANCE ON/OFF SWITCH
(product code MS400-2420)
<https://reventongroup.eu/pdf/lang/manuals/ms.pdf>

MAXIMUM NUMBER OF DEVICES PER CONTROLLER

The table below presents the maximum number of devices that can be connected to a single controller, depending on the model.

MAXIMUM QUANTITY OF CONNECTED FAN PER SINGLE CONTROLLER									LOAD EXPANSION WITH RELAY
Model	FSHC-1520	FS14HC-1610	FS3HC-2104	FS5HC-1607	FS7HC-1608	FS-TRO150-2054	HMI-SIN-2021	MS230-2419	HMI-SIN-2021 + RM16A-2343
STORM 190 AC	4	12	20	28	56	2	20	80	64

MAXIMUM QUANTITY OF CONNECTED FAN PER SINGLE CONTROLLER				
Model	PEC-2444	HMI EC-1997	MS230-2419	MS400-2420
STORM 225 EC	1	8	28	-
STORM 315 EC	1	8	18	-
STORM 355 EC	1	8	7	-
STORM 450 EC	1	8	-	3
STORM 500 EC	1	8	-	1



Attention! In case of connecting more than one unit to a single controller, it can be required to use bigger cable size (cross-sectional area) than the one specified in the wiring diagrams.

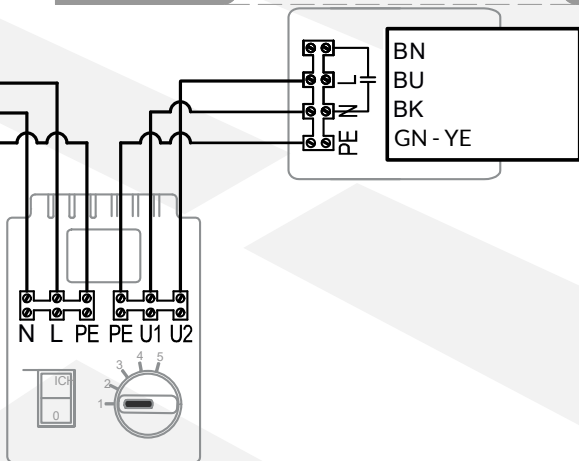
1 – voltage supply 230 V/50 Hz* / zasilanie 230 V/50 Hz* / напряжение питания 230 В/50 Гц* / Stromversorgung 230 V/50 Hz*

2 - maintenance ON/OFF switch / wyłącznik serwisowy MS / Переключатель технического обслуживания ВКЛ/ВЫКЛ / Not-Ausschalter MS

3 – roof-fan STORM AC / wentylator dachowy STORM AC / крышные вентиляторы STORM AC / dachventilator STORM AC

4 – fan speed controller / regulator prędkości obrotowej HC / тиристорный регулятор скорости / drehzahlsteller HC

* the electrical circuit should include all safety element required by the law / obwód elektryczny powinien zawierać wszystkie zabezpieczenia wymagane przez prawo / озлектрическая схема должна включать все элементы безопасности, предусмотренные законом / der Stromkreis sollte alle gesetzlich vorgeschriebenen Sicherungen enthalten



BN - brown / brązowy / коричневый / braun

BU - blue / niebieski / синий / blau

BK - black / czarny / чёрный / schwarz

GN - YE - green-yellow / żółto-zielony / жёлто-зелёный / grün-gelb

LEGEND / LEGENDA / ЛЕГЕНДА / LEGENDE (EN/PL/RU/DE)

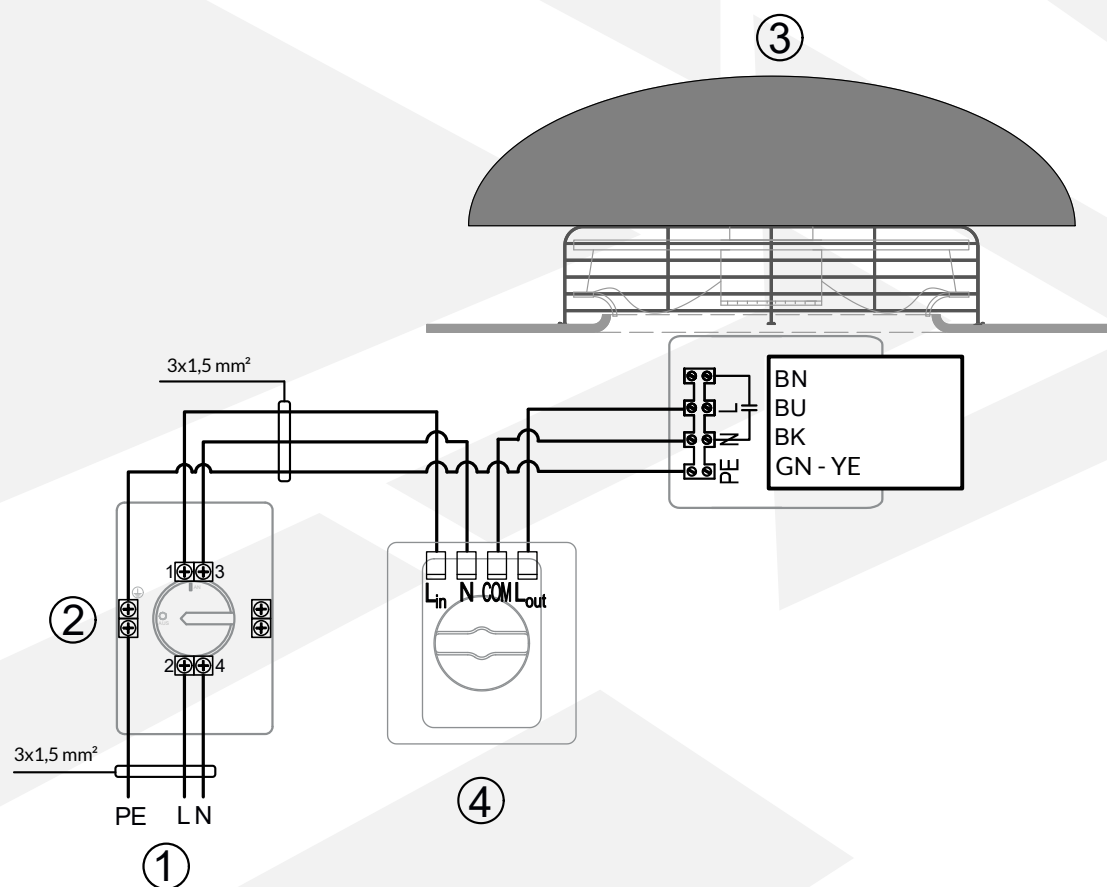
1 – voltage supply 230 V/50 Hz* / zasilanie 230 V/50 Hz* / напряжение питания 230 В/50 Гц* / Stromversorgung 230 V/50 Hz*

2 – maintenance ON/OFF switch / wyłączenie serwisowe MS / Переключатель технического обслуживания ВКЛ/ВЫКЛ / Not-Ausschalter MS

3 – roof-fan STORM AC / wentylator dachowy STORM AC / крышные вентиляторы STORM AC / dachventilator STORM AC

4 – thyristor speed controller TRO / tyrystorowy regulator prędkości obrotowej TRO / тиристорный регулятор скорости TRO / Thyristor-Drehzahlregler TRO

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1 – voltage supply 230 V/50 Hz* / zasilanie 230 V/50 Hz* / напряжение питания 230 В/50 Гц* / Stromversorgung 230 V/50 Hz*

2 – maintenance ON/OFF switch / wyłącznik serwisowy MS / Переключатель технического обслуживания ВКЛ/ВЫКЛ / Not-Ausschalter MS

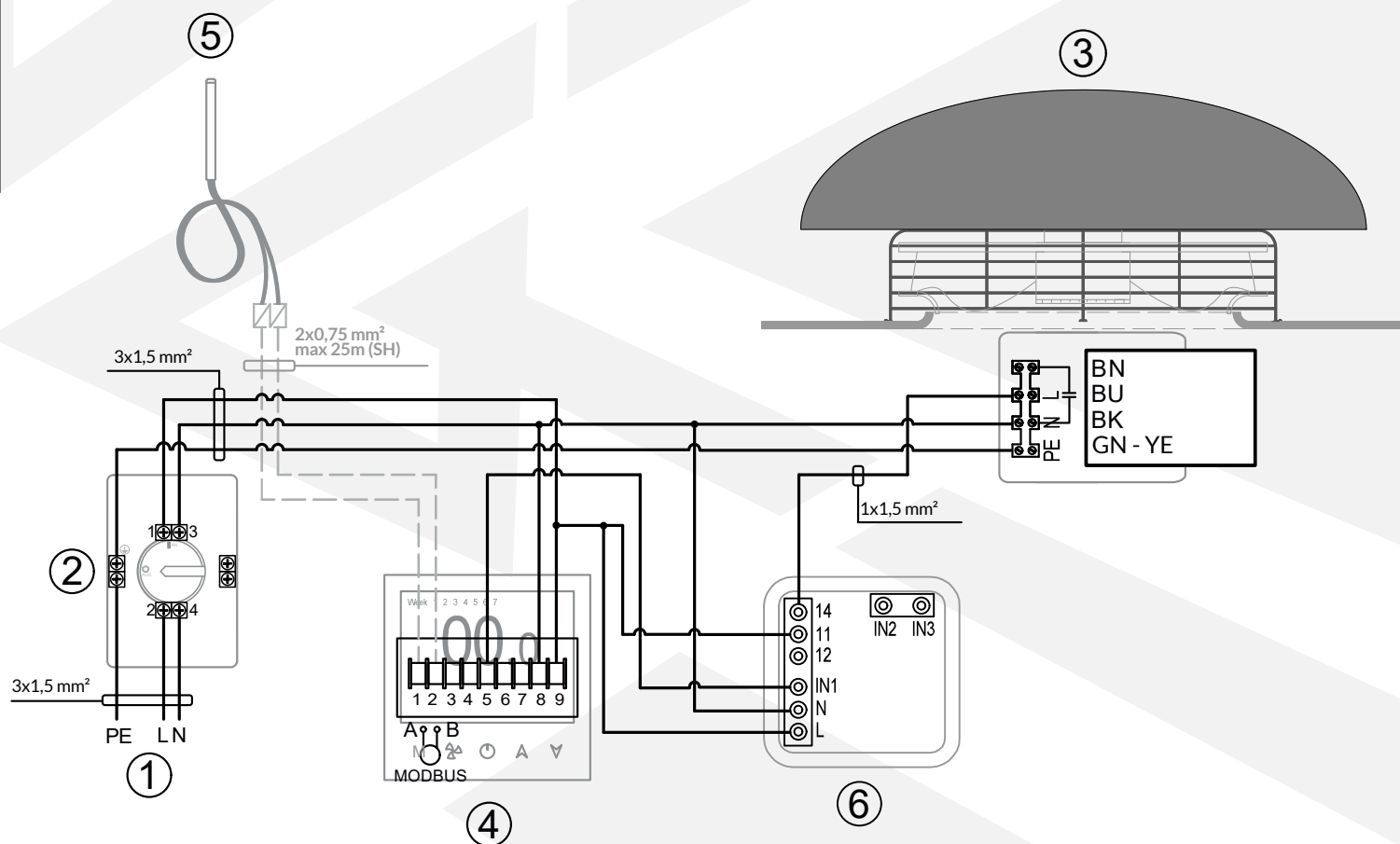
3 – roof-fan STORM AC / wentylator dachowy STORM AC / крышные вентиляторы STORM AC / dachventilator STORM AC

4 – programmable controller HMI SINGLE BMS / sterownik programowalny HMI SINGLE BMS / программируемый контроллер HMI SINGLE BMS / programmierbares Steuergerät HMI SINGLE BMS

5 – external temperature sensor / zewnętrzny czujnik temperatury / внешний датчик температуры / externer Temperatursensor

9 – relay module RM-16A / moduł przekaźnika RM-16A / модуль реле RM-16A / Relaismodul RM-16A

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SH - shielded cable / przewód ekranowany / экранированный кабель / geschirmtes Kabel

STORM EC

LEGEND / LEGENDA / ЛЕГЕНДА / LEGENDE (EN/PL/RU/DE)

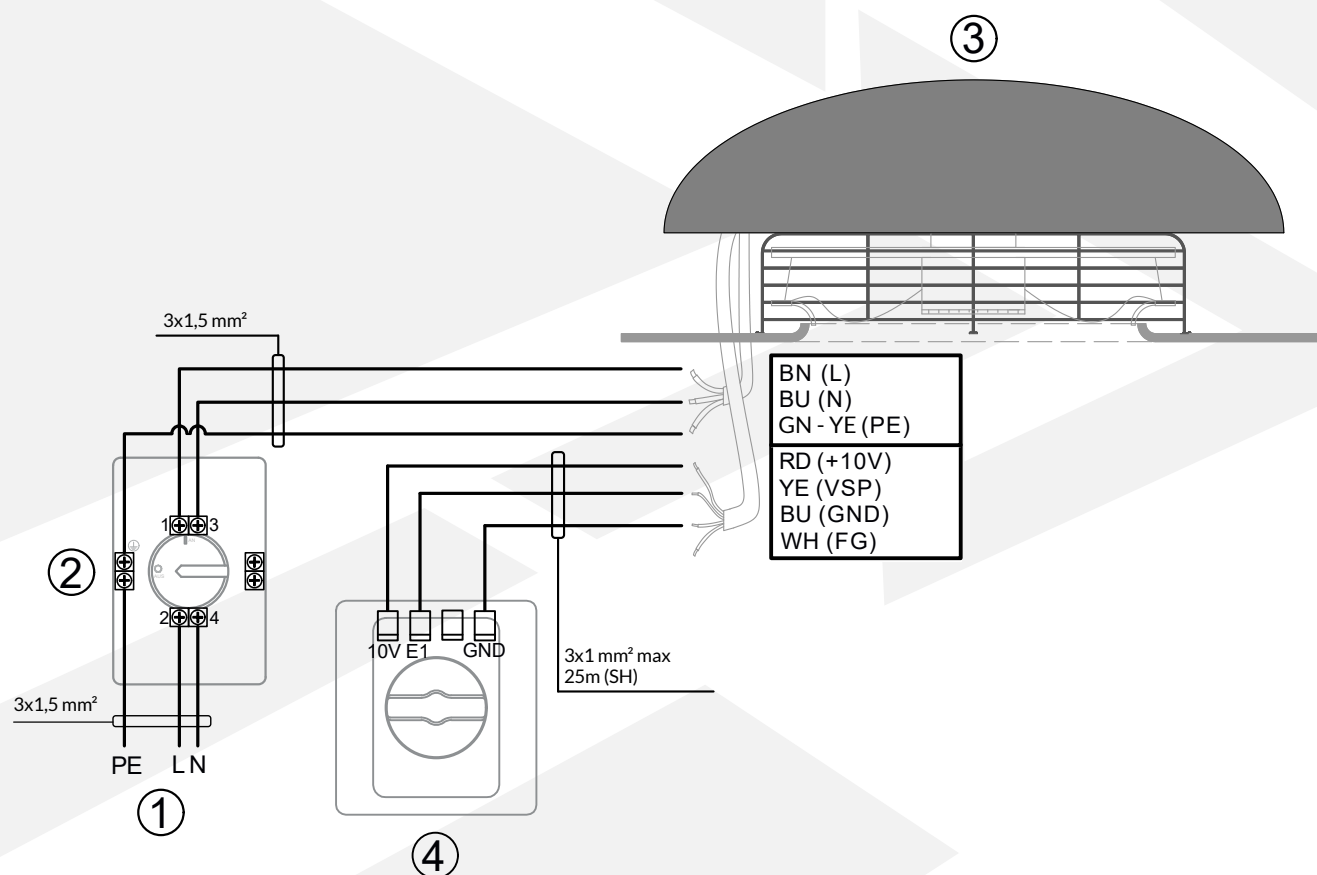
1 - voltage supply 230 V/50 Hz* / zasilanie 230 V/50 Hz* / напряжение питания 230 В/50 Гц* / Stromversorgung 230 V/50 Hz*

2 - maintenance ON/OFF switch / wyłącznik serwisowy MS / Переключатель технического обслуживания ВКЛ/ВЫКЛ / Not-Ausschalter MS

3 - roof-fan STORM EC / wentylator dachowy STORM EC / крышные вентиляторы STORM EC / dachventilator STORM EC

4 - potentiometer EC / potencjometr EC / потенциометр EC / Potentiometer EC

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RD - red / czerwony / красный / rot

YE - yellow / żółty / желтый / gelb

WH - white / biały / белый / weiß

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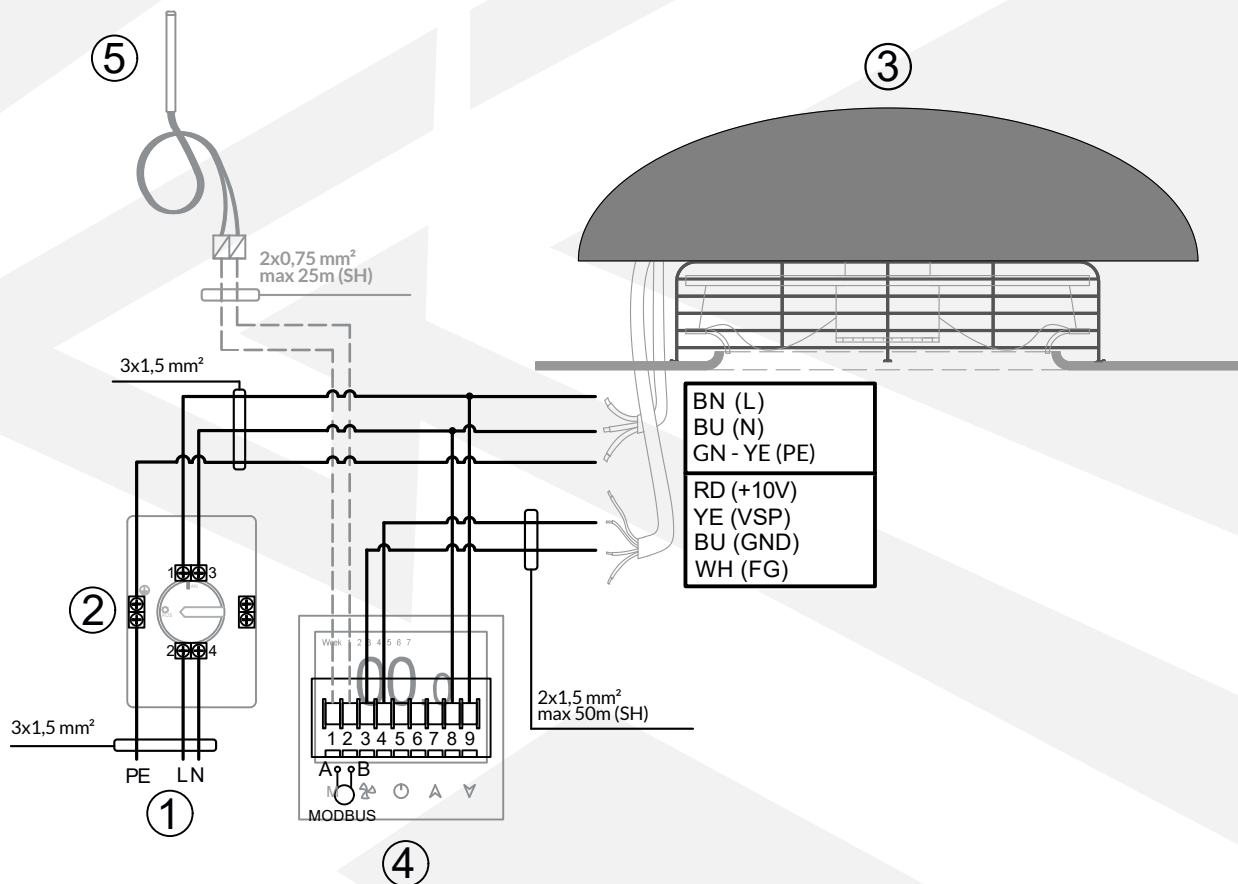
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5 – external temperature sensor / zewnętrzny czujnik temperatury / внешний датчик температуры / externer Temperatursensor

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STORM EC 3~400/50

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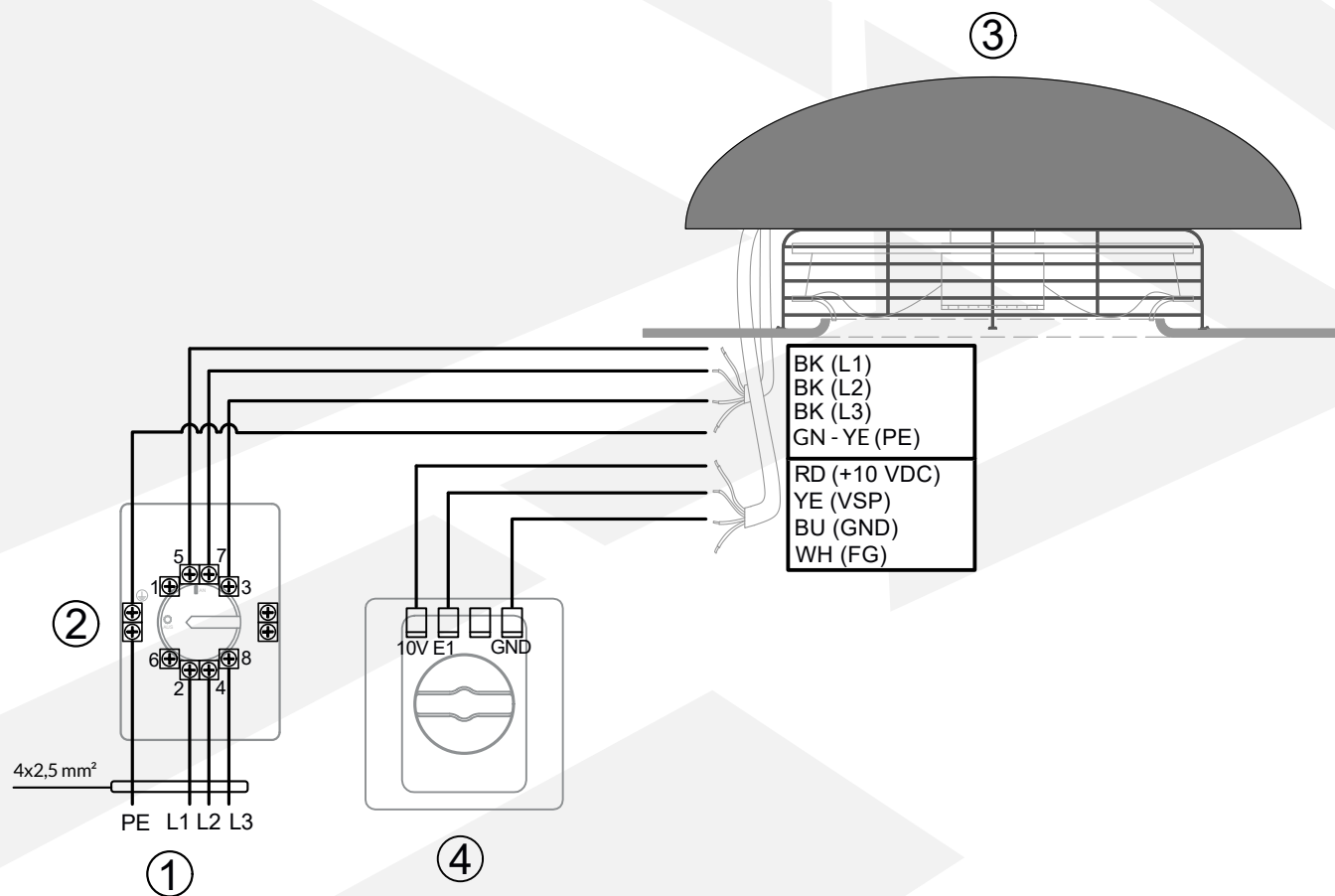
1 – voltage supply 400 V/50 Hz* / zasilanie 400 V/50 Hz* / напряжение питания 400 В/50 Гц* / Stromversorgung 400 V/50 Hz*

2 – maintenance ON/OFF switch / wyłącznik serwisowy MS / Переключатель технического обслуживания ВКЛ/ВЫКЛ / Not-Ausschalter MS

3 – roof-fan STORM EC / wentylator dachowy STORM EC / крышные вентиляторы STORM EC / dachventilator STORM EC

4 – potentiometer EC / potencjometr EC / потенциометр EC / Potentiometer EC

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WH - white / biały / белый / weiß

LEGEND / LEGENDA / ЛЕГЕНДА / LEGENDE (EN/PL/RU/DE)

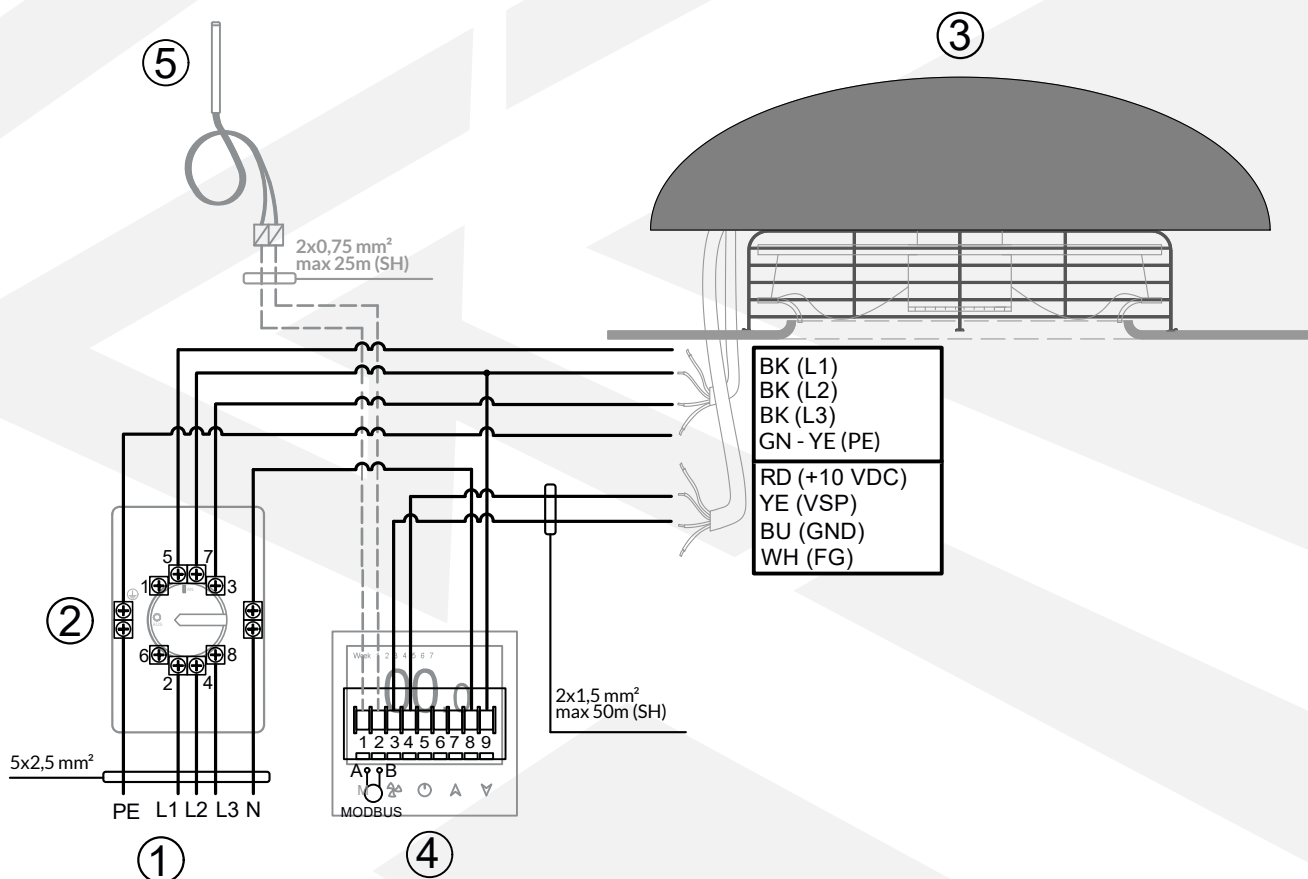
1 - voltage supply 400 V/50 Hz* / zasilanie 400 V/50 Hz* / напряжение питания 400 В/50 Гц* / Stromversorgung 400 V/50 Hz*

2 - maintenance ON/OFF switch / wyłącznik serwisowy MS / Переключатель технического обслуживания ВКЛ/ВЫКЛ / Not-Ausschalter MS

3 - roof-fan STORM PRO EC / wentylator dachowy STORM PRO EC / крышные вентиляторы STORM PRO EC / dachventilator STORM PRO EC

4 - programmable controller HMI EC BMS / sterownik programowalny HMI EC BMS / программируемый контроллер HMI EC BMS / programmierbares Steuergerät HMI EC BM

* the electrical circuit should include all safety element required by the law / obwód elektryczny powinien zawierać wszystkie zabezpieczenia wymagane przez prawo / ozelektrическая схема должна включать все элементы безопасности, предусмотренные законом / der Stromkreis sollte alle gesetzlich vorgeschriebenen Sicherungen enthalten



(EN/PL/RU/DE)

BK - black / czarny / чёрный / schwarz

GN - YE - green-yellow / żółto-zielony / жёлто-зелёный / grün-gelb

RD - red / czerwony / красный / rot

YE - yellow / żółty / желтый / gelb

BU - blue / niebieski / синий / blau

WH - white / biały / белый / weiß



reventon
INDUSTRIAL SOLUTIONS

EU DECLARATION OF CONFORMITY

Nr 34/26

Reventon Group Sp. z o.o.
154 Żywiecka Street
43-300 Bielsko-Biała, Poland

declares under our sole responsibility, that the products:

STORM 190 AC

STORM PRO 190 AC

TYPE: Roof fan

conform to the following directives and regulations:

LVD 2014/35/EC
MD 2006/42/EC
ROHS 2011/65/EU

and the following harmonized standards have been applied:

EN 60034-1:2010

The above declaration is the basis for the  marking.

Place of issue: Poland

Date of Issue: 01/06/2026



Signature: _____

Name: Tomasz Wysocki

Position: Chief Executive Officer



Reventon Group Sp. z o.o.
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Regon 361958427
NCR No. 0000566305
District Court in Bielsko-Biała, Poland
8th Economic Division of the National Court Register
Share capital: 100 000 PLN, paid in full

Reventon Group Sp.z o.o.
154 Żywiecka Street
43-300 Bielsko-Biała, Poland

declares under our sole responsibility, that the products:

STORM 225 EC
STORM 315 EC
STORM 355 EC
STORM 450 EC
STORM 500 EC

STORM PRO 225 EC
STORM PRO 315 EC
STORM PRO 355 EC
STORM PRO 450 EC
STORM PRO 500 EC

TYPE: Roof fan

conform to the following directives and regulations:

LVD 2014/35/EC
EMC 2014/30/EU
MD 2006/42/EC
ROHS 2011/65/EU
ErP 2009/125/EC & 327/2011

and the following harmonized standards have been applied:

EN 60335-2-40:2003+A11+A12+A1+A2+A13
EN 60335-1:2012+A11+A13+A1+A14+A2+A15

The above declaration is the basis for the  marking.

Place of issue: Poland

Date of Issue: 01/06/2026



Signature: _____

Name: Tomasz Wysocki

Position: Chief Executive Officer