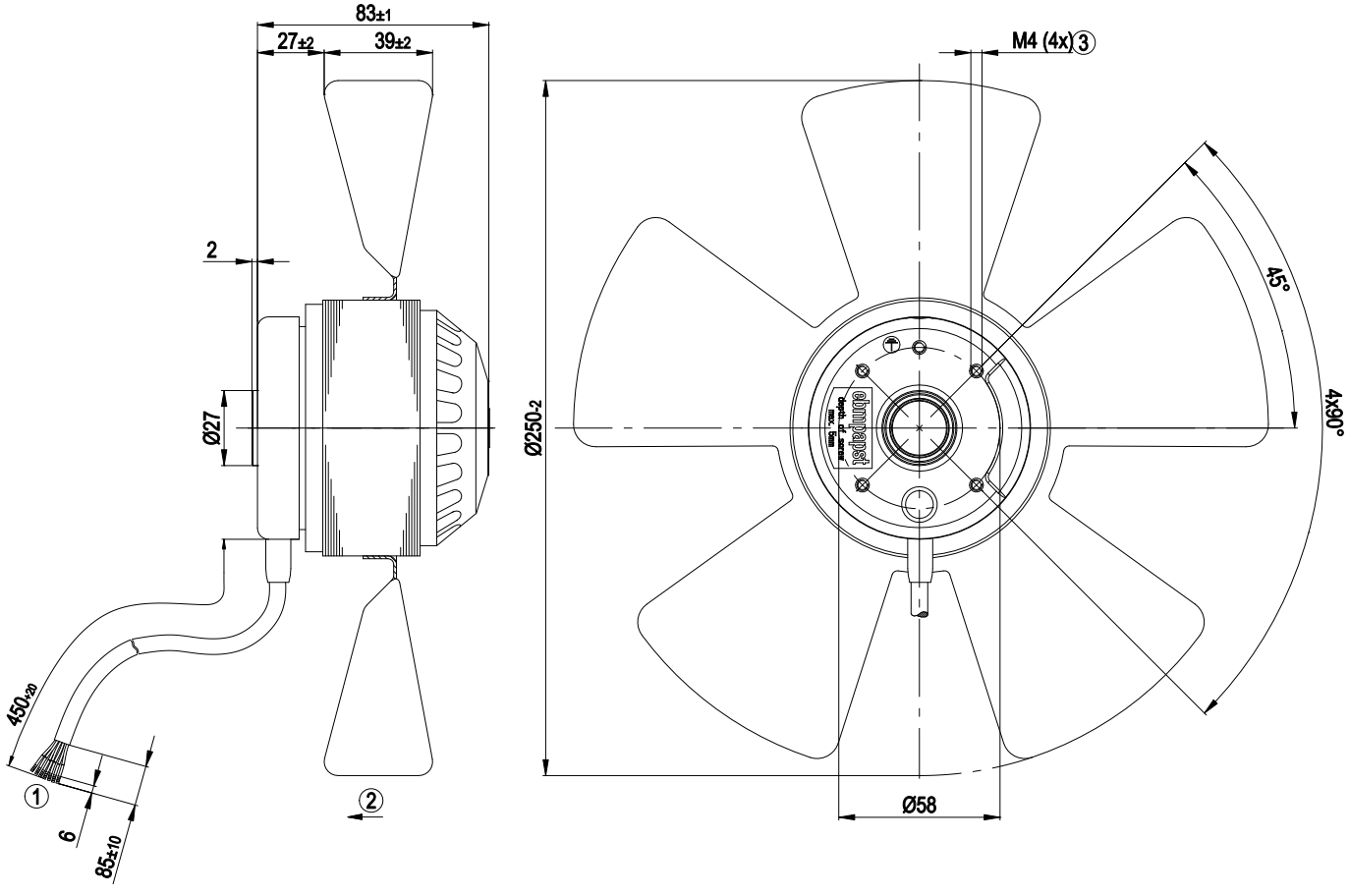
3. TECHNICAL DATA

3.1 Product drawing



All measures have the unit mm.

1	Connection line PVC 7 x 0.5 mm²; 7 x brass lead tips crimped
2	Direction of air flow "V"
3	Depth of screw max. 5 mm

3.2 Nominal data

Motor	M2D068-DF

Phase	3~	3~
Nominal voltage / VAC	400	400
Connection	Y	Y
Frequency / Hz	50	60
Type of data definition	fa	fa
Valid for approval / standard	CE	CE
Speed / min^{-1}	2650	2950
Power input / W	110	160
Current draw / A	0.22	0.26
Max. back pressure / Pa	205	300
Max. ambient temperature / °C	70	40

ml = max. load · me = max. efficiency · fa = running at free air
cs = customer specs · cu = customer unit

Subject to alterations

3.3 Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = 1 + p_{fs} / 100 000 Pa

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	28.1	24.1	28.1
Efficiency grade N	40	36	40
Power input P_e / kW	0.13		
Air flow q_v / m³/h	1050		
Pressure increase total p_{sf} / Pa	121		
Speed n / min^{-1}	2600		

Data established at point of optimum efficiency

3.4 Technical features

Mass	2.05 kg
Size	250 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, coated in black
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F1-2
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	CCC

For cyclic speed loads, note that the rotating parts of the device are designed for maximum one million load cycles. If you have specific questions, contact ebm-papst for support.

3.5 Mounting data

For depth of screw, see chapter 3.1 Product drawing

⇒ Secure the mounting screws against accidentally coming loose (e.g. by using self-locking screws).

Strength class for mounting screws	8.8

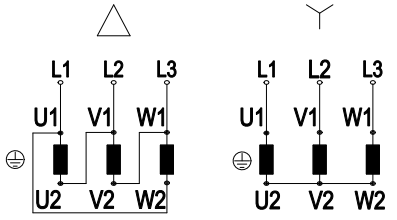
You can obtain additional mounting data from the product drawing if necessary.

3.6 Transport and storage conditions

⇒ Use the device in accordance with its protection type.

Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C

4.4 Connection screen



Note: Direction of rotation changes when two phases are reversed

Δ	Delta connection
Y	Star connection
L1	black
L2	blue
L3	brown
U1	black
V1	blue
W1	brown
U2	green
V2	white
W2	yellow