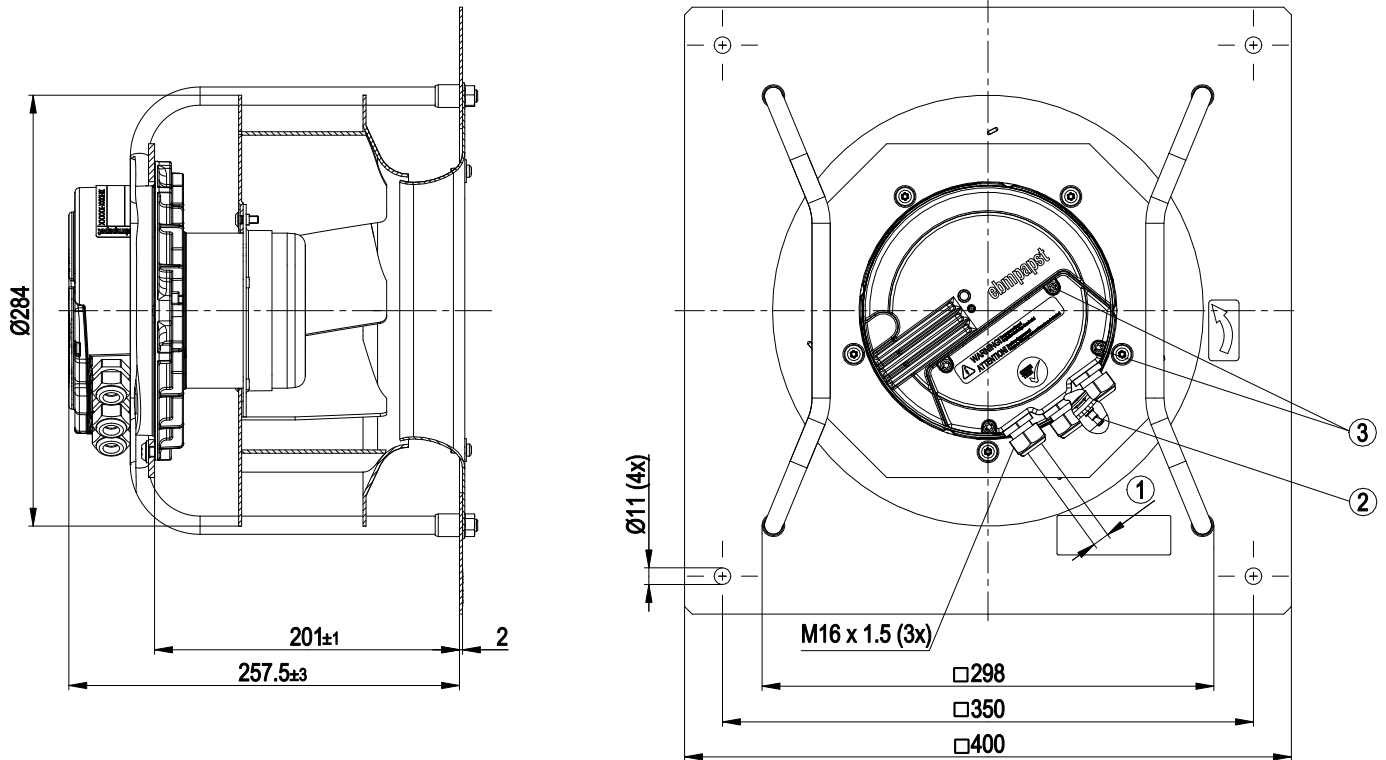


3. TECHNICAL DATA

3.1 Product drawing



All dimensions in mm.

1	Cable diameter min. 4 mm, max. 10 mm; tightening torque 2.5±0.4 Nm
2	Inlet ring with pressure tap (k-factor: 70)
3	Tightening torque 3.5 ± 0.5 Nm

3.2 Nominal data

Motor	M3G084-FA
Phase	1~
Nominal voltage / VAC	230
Nominal voltage range / VAC	200 .. 277
Frequency / Hz	50/60
Method of obtaining data	ml
Speed (rpm) / min ⁻¹	3450
Power consumption / W	750
Current draw / A	3.3
Min. ambient temperature / °C	-25
Max. ambient temperature / °C	40

ml = Max. load · me = Max. efficiency · fa = Free air
cs = Customer specification · ce = Customer equipment

Subject to change

3.3 Data according to Commission Regulation (EU) 327/2011

	Actual	Req. 2015
01 Overall efficiency η_{es} / %	62.5	50.2
02 Measurement category	A	
03 Efficiency category	Static	
04 Efficiency grade N	74.3	62
05 Variable speed drive	Yes	
06 Year of manufacture	The year of manufacture is specified on the product's rating label.	
07 Manufacturer	ebm-papst Mulfingen GmbH & Co. KG Amtsgericht (court of registration) Stuttgart · HRA 590344 D-74673 Mulfingen	
08 Type	K3G250-AV29-B6	
09 Power consumption P_{ed} / kW	0.75	
09 Air flow q_v / m ³ /h	1755	
09 Pressure increase total psf / Pa	889	
10 Speed (rpm) n / min ⁻¹	3490	
11 Specific ratio*	1.01	
12 Recycling/disposal	Information on recycling and disposal is provided in the operating instructions.	
13 Maintenance	Information on installation, operation and maintenance is provided in the operating instructions.	
14 Additional components	Components used to calculate the energy efficiency that are not apparent from the measurement category are detailed in the CE declaration.	

* Specific ratio = $1 + p_{is} / 100\,000\text{ Pa}$

Data obtained at optimum efficiency level. The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

3.4 Technical description

Weight	10.5 kg
Fan size	250 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted black
Impeller material	Sheet aluminum, coated with white plastic
Support plate material	Sheet steel, galvanized and painted white
Support bracket material	Steel, galvanized and painted black
Inlet nozzle material	Sheet steel, galvanized and painted white
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F5
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	<ul style="list-style-type: none"> - Output 10 VDC, max. 10 mA - Output 20 VDC, max. 50 mA - Output for slave 0-10 V - Input for sensor 0-10 V or 4-20 mA - Alarm relay - Motor current limitation - PFC, active - RS-485 MODBUS-RTU - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from supply - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	$\leq 3.5\text{ mA}$
Electrical hookup	Via terminal box
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (if protective earth is connected by customer to the housing's connection point)
Conformity with standards	EN 61800-5-1; CE
Approval	EAC



With regard to cyclic speed loads, note that the rotating parts of the device are designed for a maximum of one million load cycles. If you have special questions, consult ebm-papst for support.

⇒ Use the device in accordance with its degree of protection.

