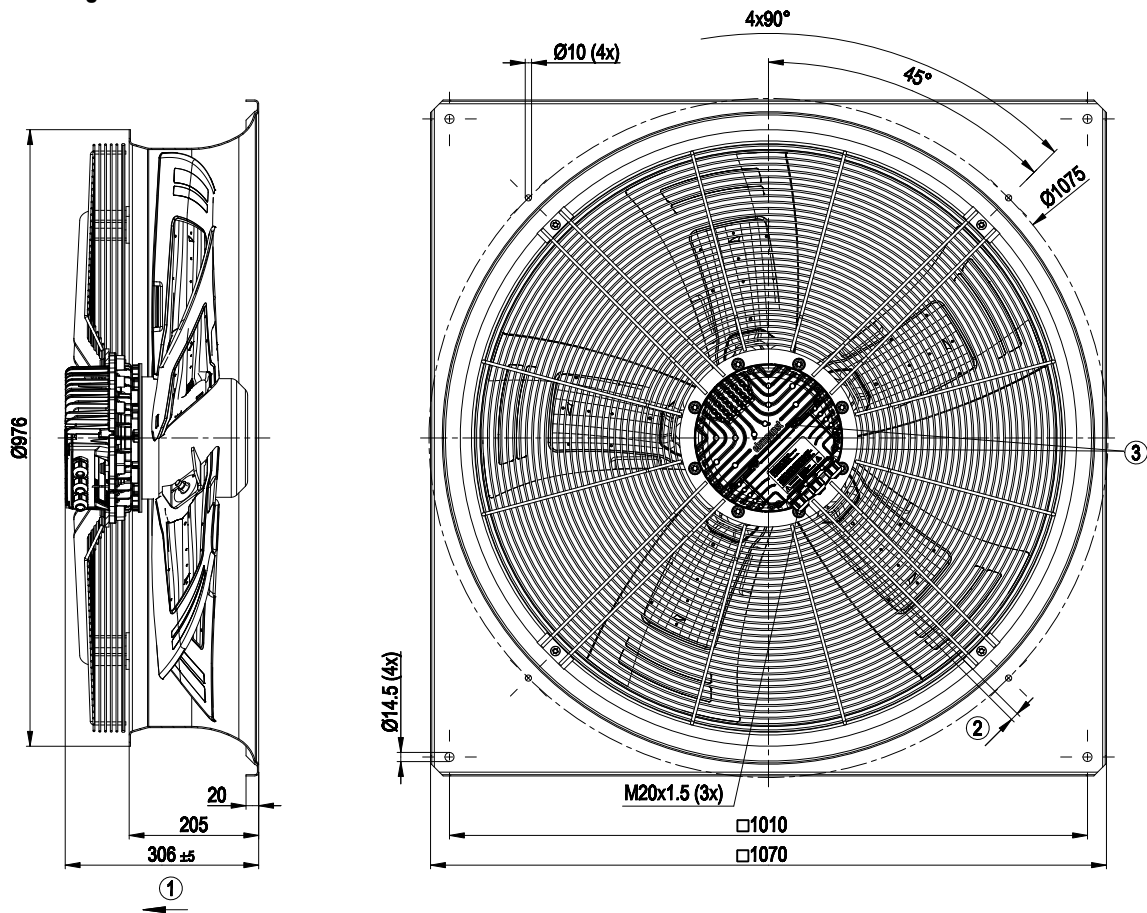


## 3. TECHNICAL DATA

## 3.1 Product drawing



All measures have the unit mm.

1	Direction of air flow "V"
2	Cable diameter: min. 4 mm, max. 10 mm, tightening torque: $4 \pm 0.6$ Nm
3	Tightening torque $3.5 \pm 0.5$ Nm

## 3.2 Nominal data

<b>Motor</b>	M3G150-NA
<b>Phase</b>	3~
<b>Nominal voltage / VAC</b>	400
<b>Nominal voltage range / VAC</b>	380 .. 480
<b>Frequency / Hz</b>	50/60
<b>Type of data definition</b>	ml
<b>Speed / min<sup>-1</sup></b>	1000
<b>Power input / W</b>	2880
<b>Current draw / A</b>	4.4
<b>Max. back pressure / Pa</b>	190
<b>Min. ambient temperature / °C</b>	-25
<b>Max. ambient temperature / °C</b>	65

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

<b>Installation category</b>	A
<b>Efficiency category</b>	Static
<b>Variable speed drive</b>	Yes
<b>Specific ratio*</b>	1.00

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

	Actual	Request 2013	Request 2015
<b>Overall efficiency <math>\eta_{es}</math> / %</b>	44.5	32.6	36.6
<b>Efficiency grade N</b>	47.9	36	40
<b>Power input <math>P_{ed}</math> / kW</b>	2.93		
<b>Air flow <math>q_v</math> / m<sup>3</sup>/h</b>	22085		
<b>Pressure increase total <math>p_{sf}</math> / Pa</b>	202		
<b>Speed <math>n</math> / min<sup>-1</sup></b>	1005		

Data definition with optimum efficiency.

The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

## 3.4 Technical features

<b>Mass</b>	57 kg
<b>Size</b>	910 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of electronics housing</b>	Die-cast aluminium, coated in black
<b>Material of blades</b>	Aluminium sheet insert, sprayed with PP plastic
<b>Material of wall ring</b>	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
<b>Material of guard grille</b>	Steel, coated in black plastic (RAL9005)
<b>Number of blades</b>	5
<b>Blade angle</b>	0°
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 54
<b>Insulation class</b>	"F"

<b>Humidity class</b>	F4-1
<b>Mounting position</b>	Shaft horizontal or rotor on bottom; rotor on top on request
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Output 10 VDC, max. 10 mA</li> <li>- Output 20 VDC, max. 50 mA</li> <li>- Output for slave 0-10 V</li> <li>- Operation and alarm display</li> <li>- Input for sensor 0-10 V or 4-20 mA</li> <li>- External 24 V input (programming)</li> <li>- External release input</li> <li>- Alarm relay</li> <li>- Integrated PID controller</li> <li>- Motor current limit</li> <li>- PFC, passive</li> <li>- RS485 MODBUS RTU</li> <li>- Soft start</li> <li>- Control input 0-10 VDC / PWM</li> <li>- Control interface with SELV potential safely disconnected from the mains</li> <li>- Over-temperature protected electronics / motor</li> <li>- Line undervoltage / phase failure detection</li> </ul>
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	<= 3.5 mA
<b>Electrical leads</b>	Via terminal box
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 61800-5-1; CE
<b>Approval</b>	C22.2 Nr.77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730



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

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

<b>Strength class for mounting screws</b>	8.8
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You can obtain additional mounting data from the product drawing if necessary.