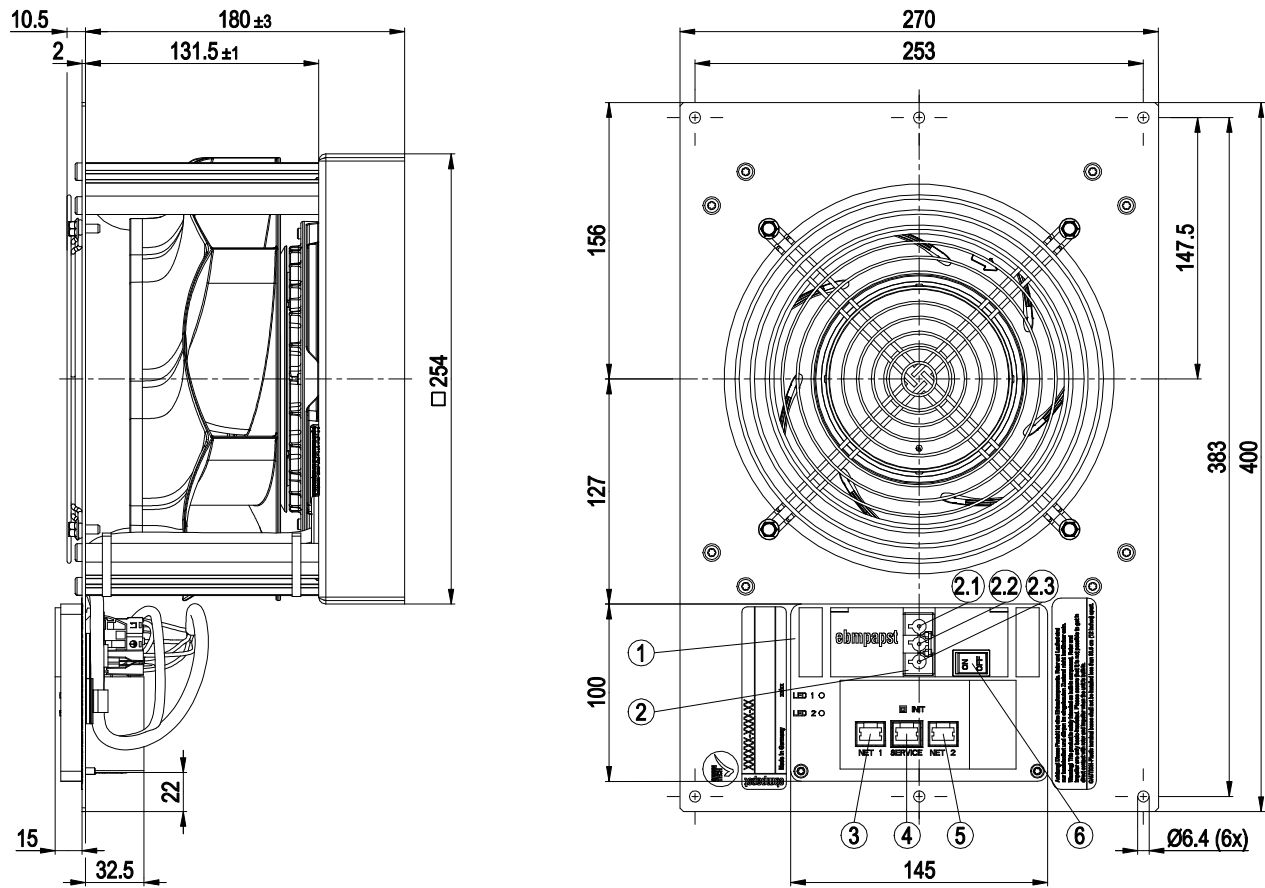


3. TECHNICAL DATA

3.1 Product drawing



All dimensions in mm.

1	Plastic terminal box
2	Connector housing 3-pole GST18/3 Wieland 92.032.9058.1
2.1	L
2.2	PE
2.3	N
3	8-pole connector housing TE 100616-2
4	8-pole connector housing TE 100616-2
5	8-pole connector housing TE 100616-2
6	Switch, ARCOLECTRIC SWITCHES P L C (no. H8550VBACF) As-delivered condition end customer switch set to "OFF"



3.2 Nominal data

Motor	M3G084-DF
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	3600
Power consumption / W	480
Current draw / A	2.1
Min. ambient temperature / °C	-25
Max. ambient temperature / °C	60

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} / %	52	48.1
02 Measurement category	A	
03 Efficiency category	Static	
04 Efficiency grade N	65.9	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-RR01-H1	
09 Power consumption P_{ed} / kW	0.47	
09 Air flow q_v / m ³ /h	1055	
09 Pressure increase total p_{sf} / Pa	756	
10 Speed (rpm) n / min ⁻¹	3610	
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 = $1 + p_{sf} / 100\,000\text{ Pa}$

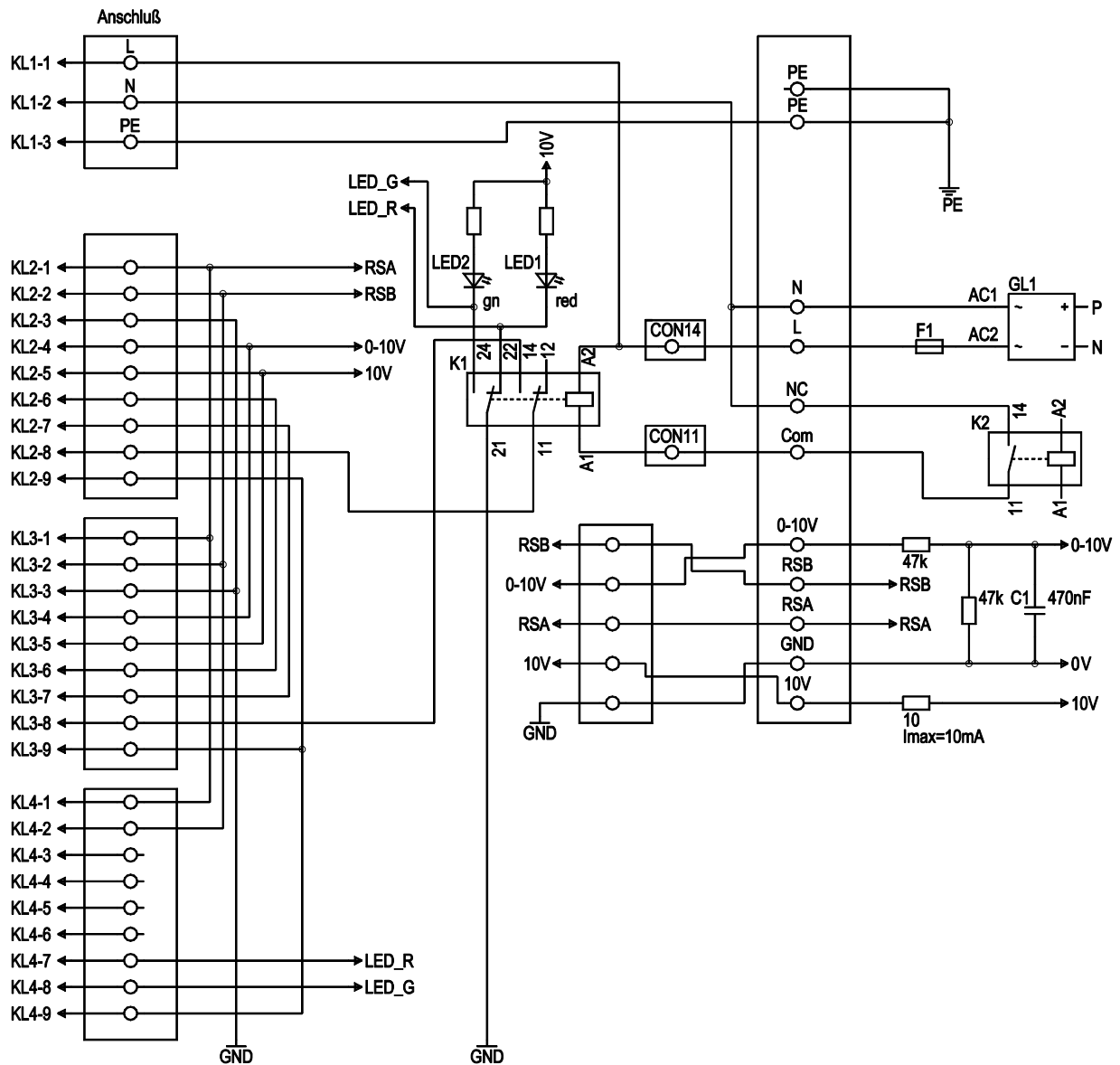
Data obtained at optimum efficiency level. The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

3.4 Technical description

Weight	5.46 kg
Size	250 mm
Motor size	84
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted black
Impeller material	PA plastic, sheet-metal plate painted black
Support plate material	Sheet aluminum
Spacer material	Aluminum
Inlet nozzle material	Sheet aluminum
Guard grille material	Steel, coated with white-aluminum plastic (RAL 9006)
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	Motor IP55, electronics IP20
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Operation and alarm display with LED - Alarm relay - Integrated PID controller - Power limiter - 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 the mains - 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	Plug
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE
Approval	CSA C22.2 No. 113; UL 507



4.4 Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1	L	black	Power supply, phase
1	2	N	blue	Power supply, neutral conductor
1	3	PE	green/ yellow	Protective earth
2	1	RSA	-	RS485 interface for MODBUS, RSA; SELV
2	2	RSB	-	RS485 interface for MODBUS, RSB; SELV
2	3	GND	-	Reference ground for control interface, SELV
2	4	0-10 V / PWM	-	Analog input (set value) SELV, 0-10 V, R _i = 100 kΩ, adjustable curve
2	5	+10 V	-	Fixed voltage output 10 VDC, SELV, +10 V +/-3%, max. 10 mA, short-circuit-proof, power supply for external devices (e.g. potentiometers)
2	6	RES	-	Reserve
2	7	COM*	-	Alarm COM*
2	8	NC	-	NC KL2 UMAX 24 V
2	9	Schirm	-	Shield
3	1	RSA	-	RS485 interface for MODBUS, RSA; SELV
3	2	RSB	-	RS485 interface for MODBUS, RSB; SELV