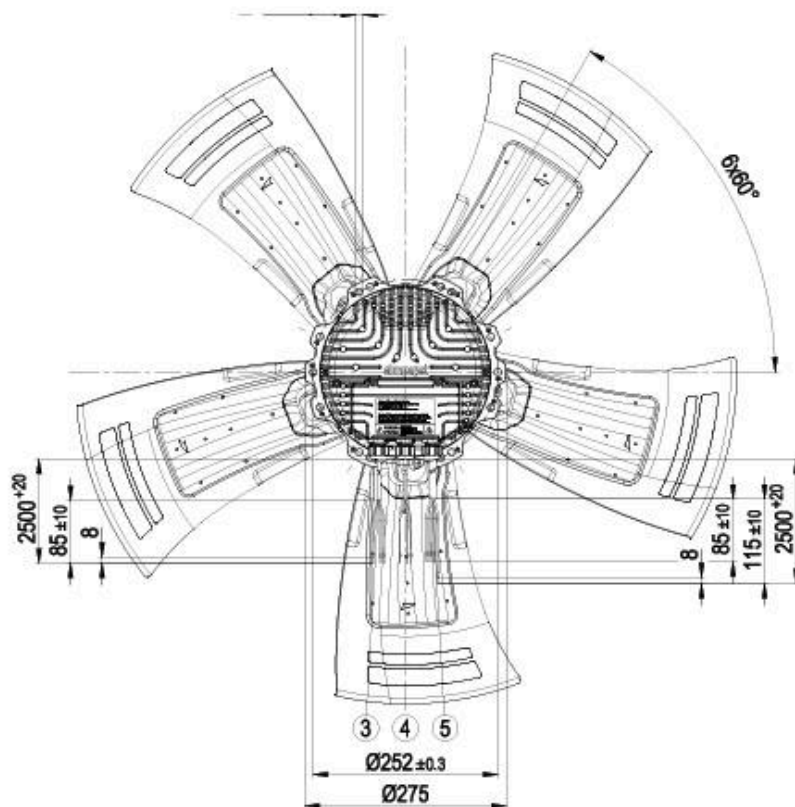
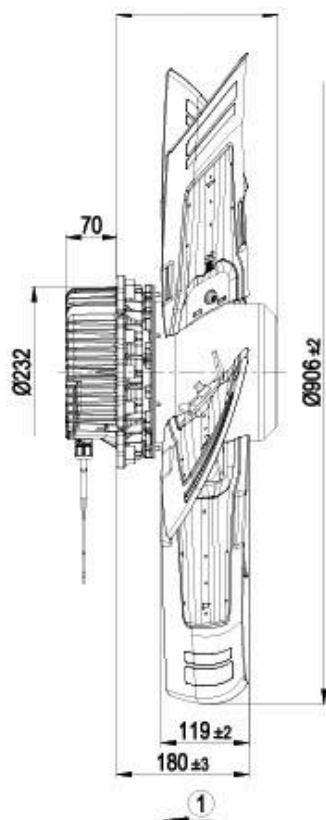
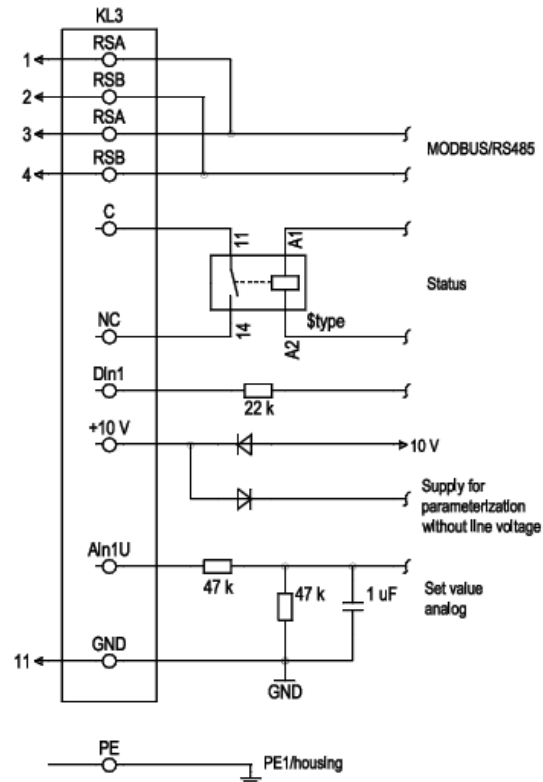
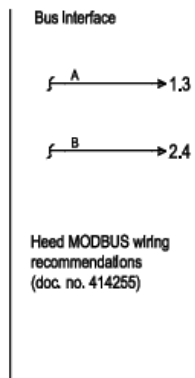


Phase		3~
Nominal voltage	VAC	400
Nominal voltage range	VAC	380 .. 480
Frequency	Hz	50/60
Status		prelim.
Speed (rpm)	min ⁻¹	1000
Power consumption	W	2880
Current draw	A	4.4
Max. back pressure	Pa	190
Max. back pressure	in. wg	0.76
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	65

Weight	31 kg
Size	910 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted black
Blade material	Sheet aluminum insert, sprayed with PP plastic
Number of blades	5
Blade pitch	0°
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on bottom
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Operation and alarm display - External 24 V input (parameter setting) - Alarm relay - Integrated PID controller - Motor current limitation - PFC, passive - 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
Power Factor Correction (PFC)	Passive (through low-capacitance DC link)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box with cable
Motor protection	Reverse polarity and locked-rotor protection
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 61800-5-1; CE; UKCA
Approval	EAC



1	Direction of air flow "V"
2	Max. clearance for screw 25 mm
3	Cable Unitronic Robust C 4x 0.34 mm ² 3x wire-end ferrule
4	Cable Unitronic Robust C 4x 0.34 mm ² 3x wire-end ferrule
5	Cable Ölflex Robust FD 4G 1.5 mm ² 4x wire-end ferrule



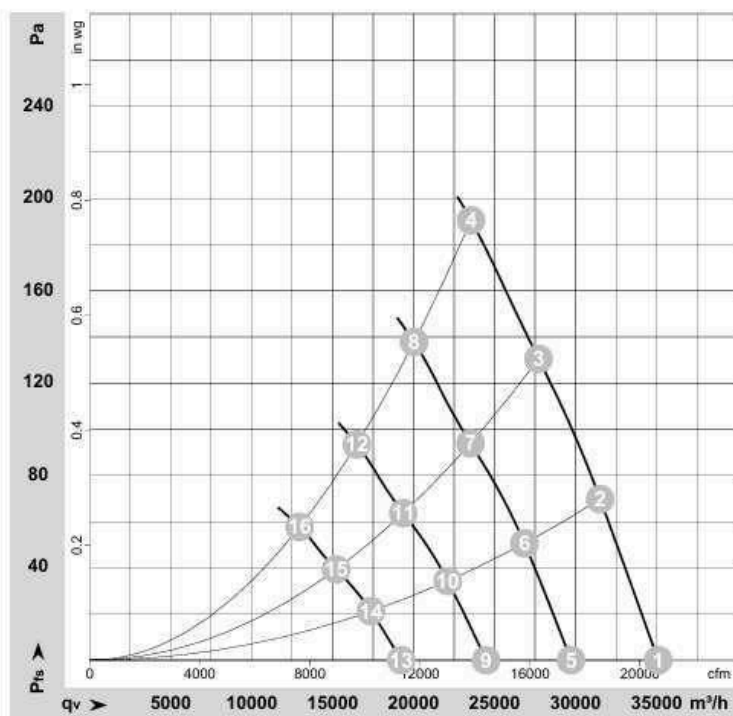
Terminal box connection diagram



shaded gray => not brought out via leads

No.	Conn.	Designation	Color	Function/assignment
KL1	1, 2, 3	L1, L2, L3	black	Supply connection, power supply; for nominal voltage range see technical data
PE		PE	green/yellow	Ground connection, PE connection
KL3	7	C	-	Status relay, floating status contact, common connection, contact rating 250 VAC / max. 2 A (AC1) / min. 10 mA
KL3	14	NC	-	Status relay, floating status contact, common connection, contact rating 250 VAC / max. 2 A (AC1) / min. 10 mA
KL3	1/3	RSA	green	Bus connection RS485, RSA, MODBUS RTU; SELV
KL3	2/4	RSB	yellow	Bus connection RS485, RSB, MODBUS RTU; SELV
KL3	11	GND	white	Reference ground for control interface; SELV
KL3	10	Ain1 U	-	Analog input 1, set value: 0-10 V, Ri = 100 kΩ, adjustable curve, SELV
KL3	9	+10 V	-	Fixed voltage output 10 VDC, +10 V +/-3%, max. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer); SELV

No.	Conn.	Designation	Color	Function/assignment
KL3	8	Din1	-	Digital input 1: enable electronics, enable: pin open or applied voltage 5-50 VDC disable: bridge to GND or applied voltage < 1 VDC reset function: triggers software reset after a level change to < 1 VDC; SELV



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-142894-1
Date: 2012-05-14
Housing: 38913-2-4037

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P_{ed}	I	LpA_{in}	LwA_{in}	LwA_{out}	q_v	P_{is}	q_v	P_{is}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	400	50	1000	1973	3.09	72	79	80	35100	0	20660	0.00
2	400	50	1000	2297	3.57	71	78	79	31515	70	18550	0.28
3	400	50	1000	2615	4.04	71	78	78	27715	130	16310	0.52
4	400	50	1000	2880	4.40	73	80	79	23545	190	13860	0.76
5	400	50	850	1198	1.87	68	75	76	29720	0	17490	0.00
6	400	50	850	1419	2.20	67	74	75	26845	51	15800	0.20
7	400	50	850	1596	2.47	66	74	74	23510	94	13840	0.38
8	400	50	850	1772	2.74	69	76	75	20025	138	11785	0.55
9	400	50	700	669	1.05	63	70	71	24475	0	14405	0.00
10	400	50	700	792	1.23	62	69	70	22105	34	13010	0.14
11	400	50	700	891	1.38	62	69	69	19360	64	11395	0.26
12	400	50	700	990	1.53	64	71	70	16490	93	9705	0.37
13	400	50	550	324	0.51	57	64	65	19230	0	11320	0.00
14	400	50	550	384	0.60	56	63	64	17370	21	10225	0.08
15	400	50	550	432	0.67	55	63	63	15215	39	8955	0.16
16	400	50	550	480	0.74	58	65	64	12955	58	7625	0.23

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
 LwA_{out} = Sound power level outlet side · q_v = Air flow · P_{is} = Pressure increase