G1G146-CC31-06

EC centrifugal fan

forward-curved, single-intake

with housing and mounting bracket

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Nominal data

Type	**G1G146-CC31-06**
Motor	**M1G055-CF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Speed	min^{-1}	2700
Power consumption	W	60
Current draw	A	0.4
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

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Technical description

Weight	2.2 kg
Fan size	146 mm
Rotor surface	Galvanized
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor storage	Ball bearing
Technical features	-0-10 V output for ventilation flap control -Output 10 VDC, max. 1.1 mA -Fault output 15 V / 6 mA -Run monitoring -Motor current limitation -Soft start -Set value input Lin 0-10 VDC / PWM (1.7 V corresponds to 50 m³/h, 10 V corresponds to 300 m³/h)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box
Motor protection	Locked-rotor protection
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection

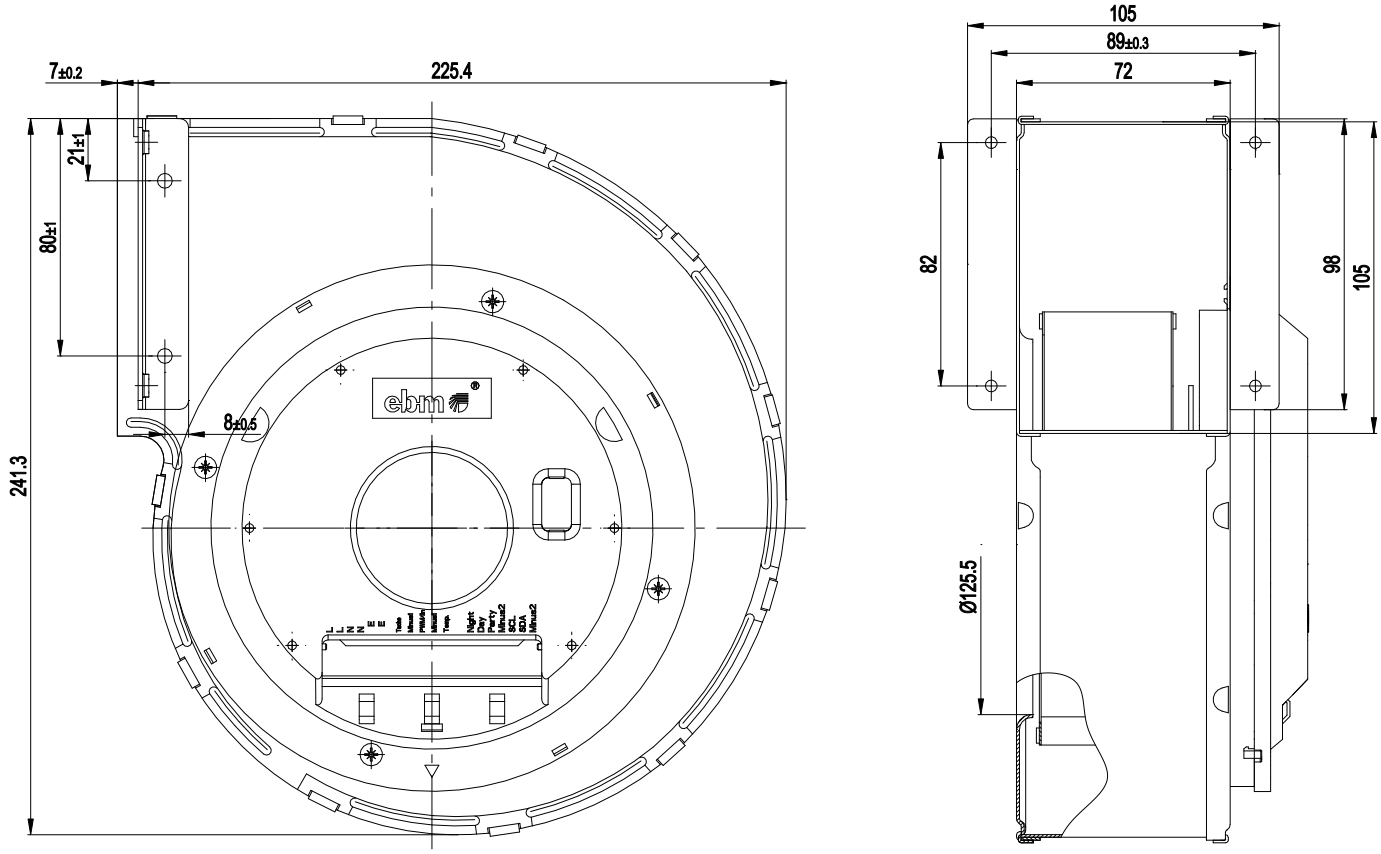
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Product drawing



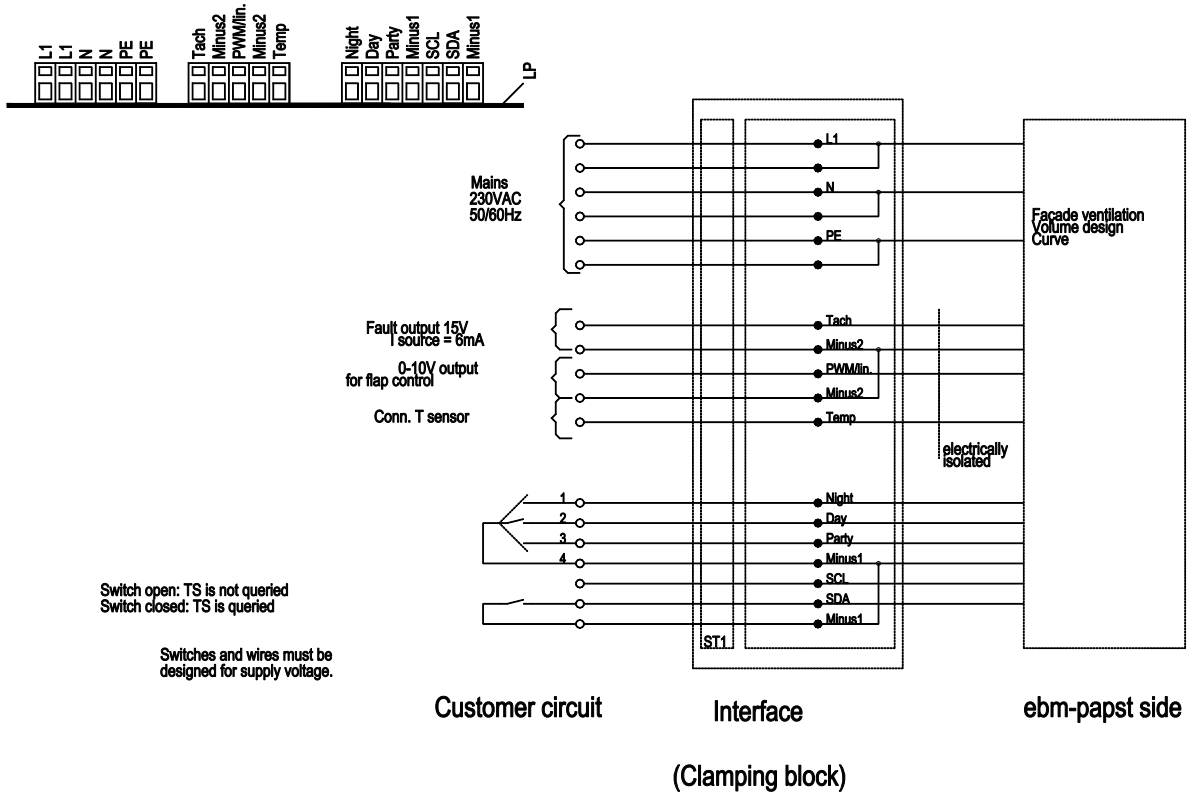
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Connection diagram



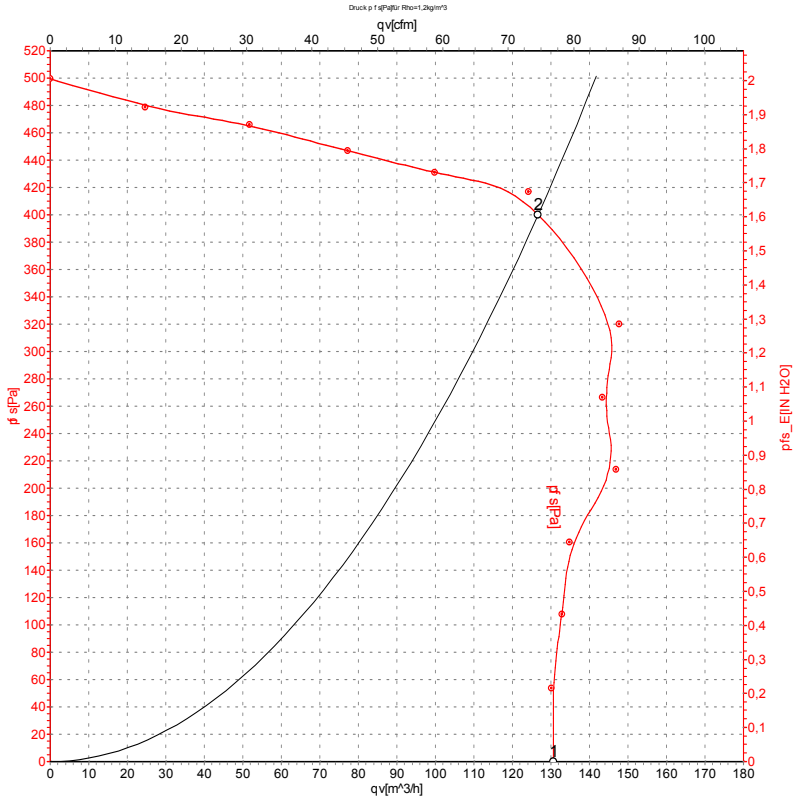
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Curves: Air performance 50 Hz



Measurement: LU-60423

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

	Wired	U	f	n	P_{ed}	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Party	230	50	595	5.0	0.06	130	0
2	Party	230	50	2675	60	0.40	125	400

Wired = Wiring · U = Power supply · f = Frequency · n = Speed · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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