G4D225-CI04-01

AC centrifugal fan

forward-curved, single-intake

with housing (large flange)

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**G4D225-CI04-01**
Motor	**M4D094-FA**

Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Y	Y
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	1320	1520
Power consumption	W	490	570
Current draw	A	0.89	0.97
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Max. ambient temperature	°C	75	45
Starting current	A	2.8	3.2

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_e	%	38.6	38.4
02 Measurement category		B	
03 Efficiency category		Total	
04 Efficiency grade N		49.2	49
05 Variable speed drive		No	

09 Power consumption P_e	kW	0.21
09 Air flow q_v	m^3/h	865
09 Pressure increase p_f	Pa	344
10 Speed (rpm) n	min^{-1}	1435
11 Specific ratio*		1.00

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

* Specific ratio = 1 + p_f / 100 000 Pa

LU-43604

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Technical description

Weight	10 kg
Fan size	225 mm
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010); CE

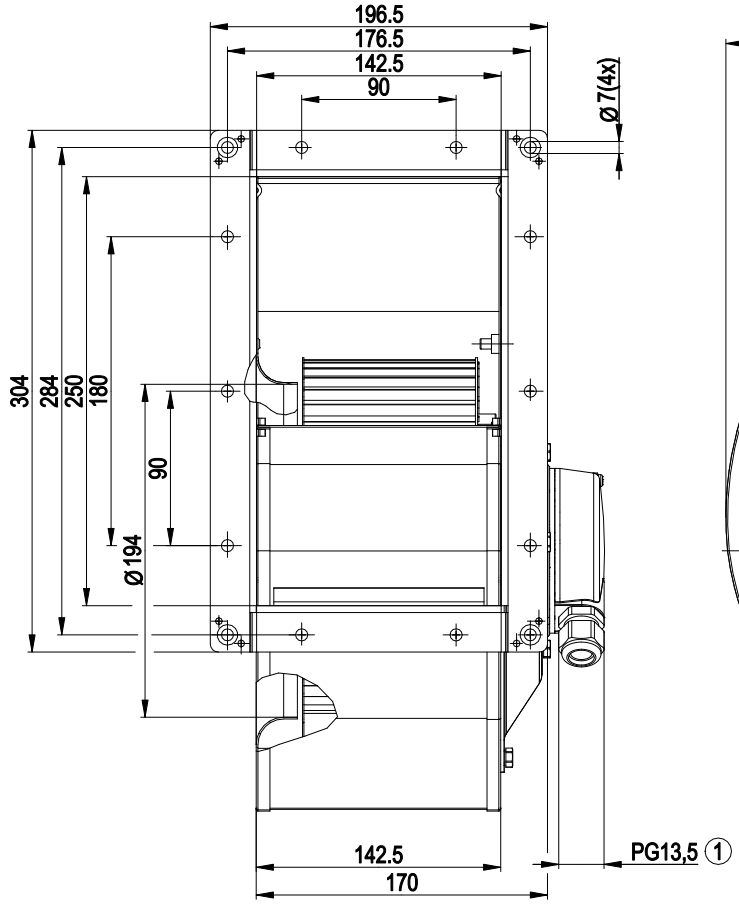
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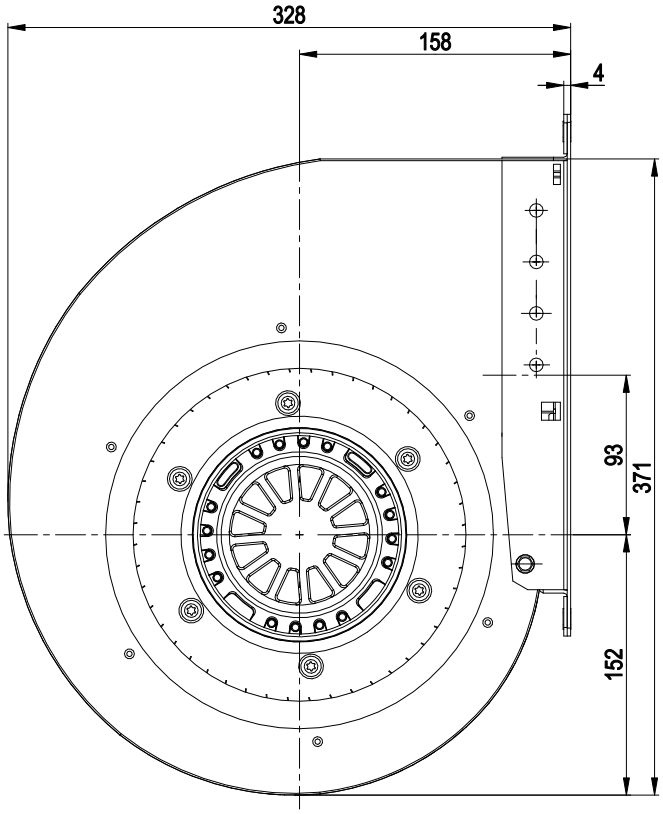
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Product drawing





1	Cable diameter: min.6 mm, max.12 mm; tightening torque 2 Nm±0.3 Nm

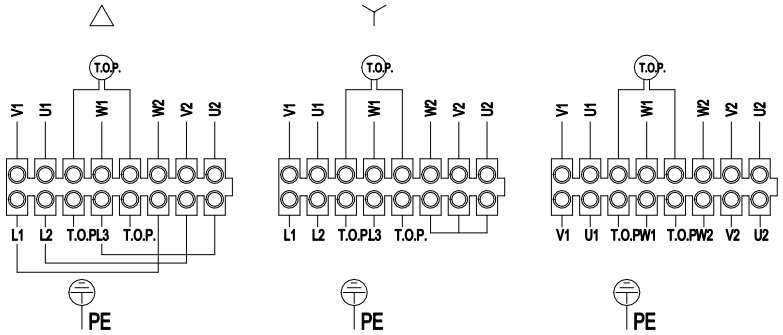
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Connection diagram



Δ	Delta connection
Y	Star connection
L1	= V1 = black
L2	= U1 = blue
L3	= W1 = red
U2	green
V2	yellow
W2	white
TOP	Thermal overload protector

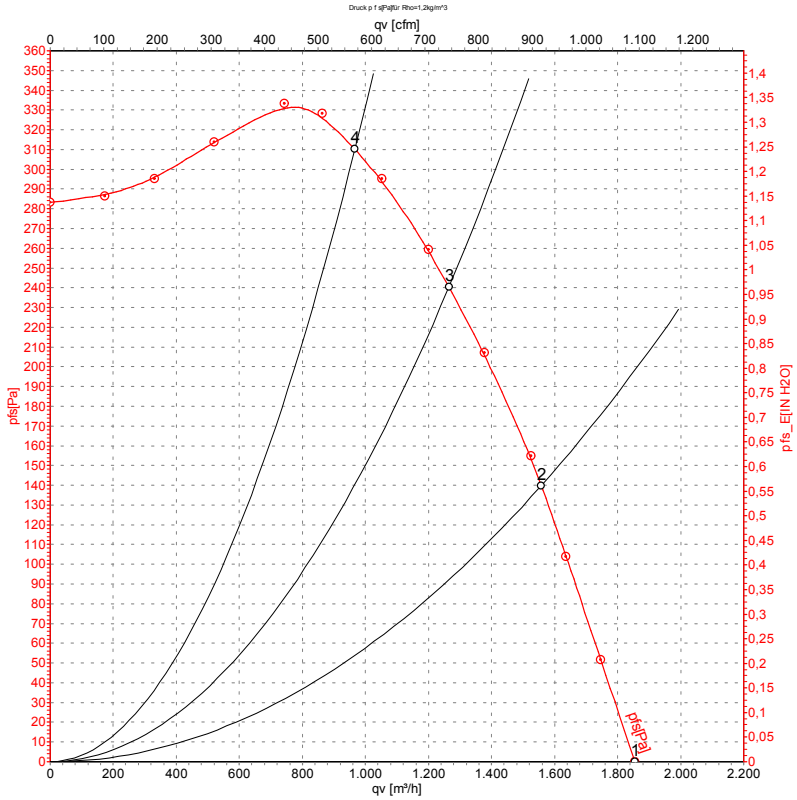
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AC centrifugal fan

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Curves: Air performance 50 Hz Y



Measurement: LU-43604-1

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_e	I	qv	p_{fs}	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	Y	400	50	1320	490	0.89	1855	0	1090	0.00
2	Y	400	50	1365	390	0.76	1560	140	915	0.56
3	Y	400	50	1400	307	0.66	1265	240	745	0.96
4	Y	400	50	1425	235	0.58	965	310	570	1.24

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

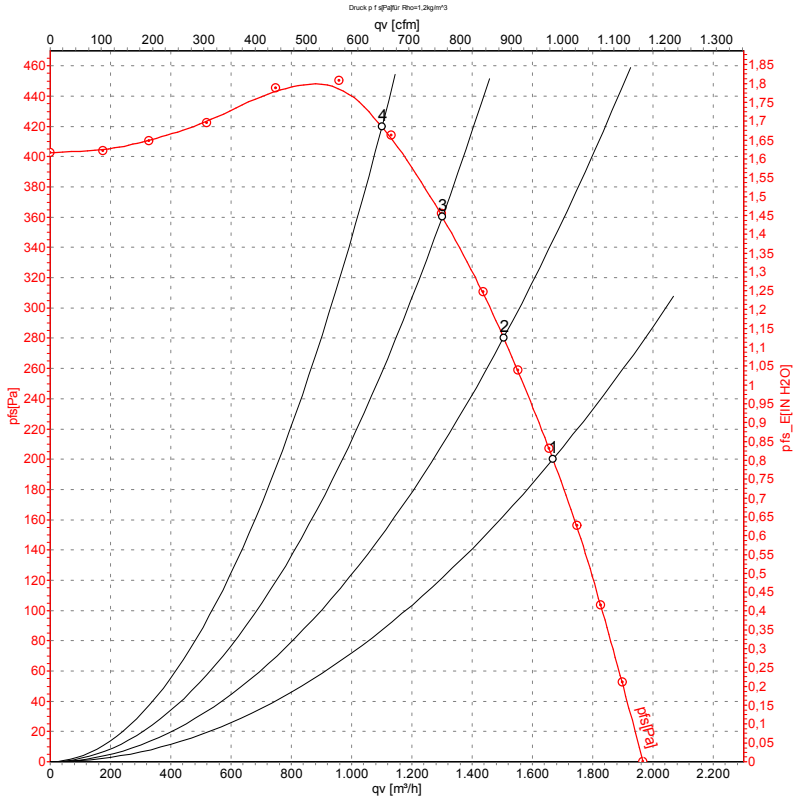
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Curves: Air performance 60 Hz Y



Measurement: LU-43603-1

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_e	I	qv	p_{fs}	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	Y	400	60	1520	570	0.97	1665	200	980	0.80
2	Y	400	60	1565	502	0.86	1505	280	885	1.12
3	Y	400	60	1615	420	0.74	1300	360	765	1.45
4	Y	400	60	1650	356	0.65	1100	420	645	1.69

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

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