

AC centrifugal fan

forward-curved, dual-intake

with housing (large flange)

D4E225-CC01-55 ebmpapst Datasheet

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Nominal data

Type	D4E225-CC01-55	
Motor	M4E074-LA	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	1090
Power consumption	W	670
Current draw	A	2.92
Capacitor	μF	20
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	160
Min. back pressure	in. wg	0.64
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	35

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

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015
01 Overall efficiency η_e	%	40.7	40.7
02 Measurement category		B	
03 Efficiency category		Total	
04 Efficiency grade N		49	49
05 Variable speed drive		No	

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.48
09 Air flow q_v	m³/h	1900
09 Pressure increase p_f	Pa	356
10 Speed (rpm) n	min ⁻¹	1330
11 Specific ratio*		1.00

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

LU-135955



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Technical description

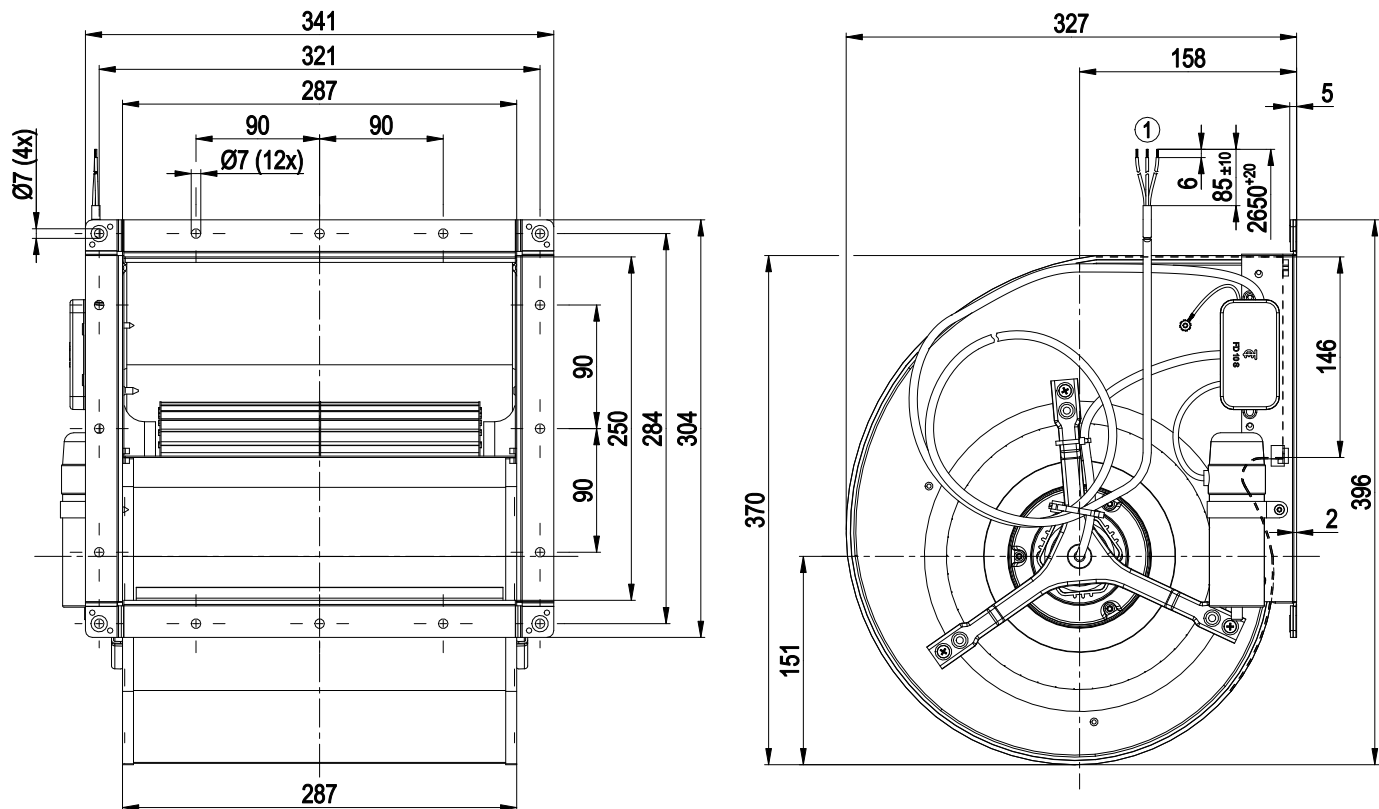
Weight	12.5 kg
Size	225 mm
Motor size	74
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP22
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0+
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 bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Terminal box; Via terminal box, capacitor integrated and connected
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S2
Conformity with standards	EN 60335-1; CE



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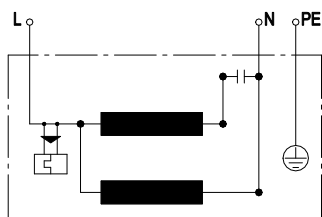
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Product drawing



- | | |
|---|-----------------------------------|
| 1 | Cable PVC 3G 0.75 mm ² |
| | 3x splice |

Connection diagram



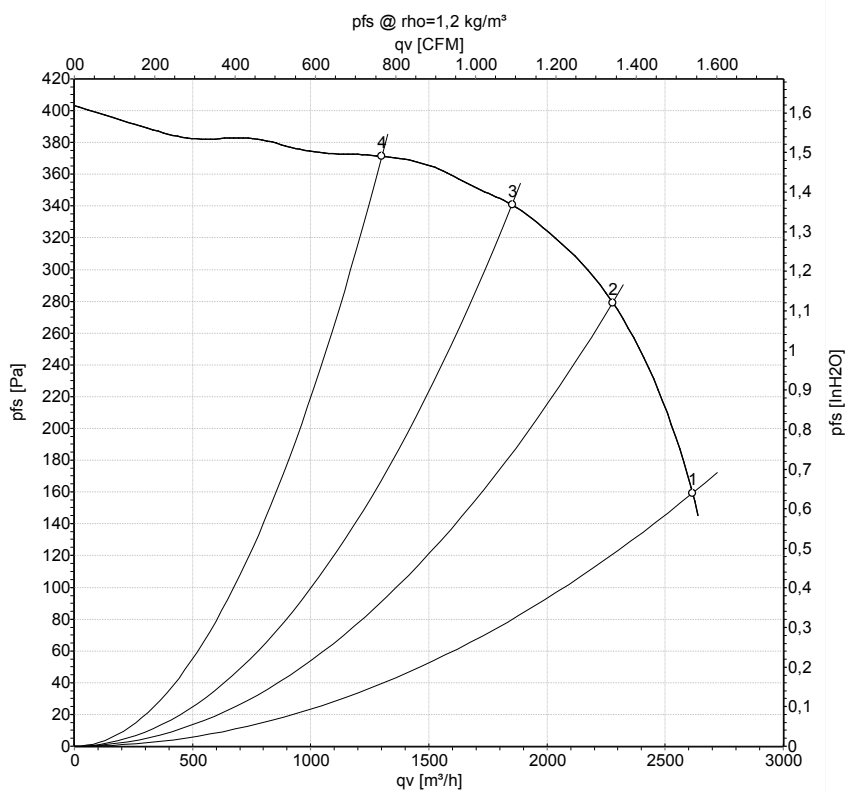
L	blue	N	brown	PE	green/yellow
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Curves: Air performance 50 Hz



Measurement: LU-135955-1

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

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	230	50	1090	670	2.92	2615	160	1540	0.64
2	230	50	1250	562	2.49	2280	280	1340	1.12
3	230	50	1335	474	2.13	1850	340	1090	1.36
4	230	50	1390	393	1.83	1300	370	765	1.49

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

