D4E225-BC01-28

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

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Nominal data

Type	**D4E225-BC01-28**
Motor	**M4E074-LA**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		-
Speed (rpm)	min^{-1}	1100
Power consumption	W	700
Current draw	A	3.05
Capacitor	µF	25
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	20
Min. back pressure	in. wg	0.08
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Starting current	A	4.5

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	11.9 kg
Size	225 mm
Motor size	74
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Support structure 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+; F2-1
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, open rotor
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1
Approval	EAC

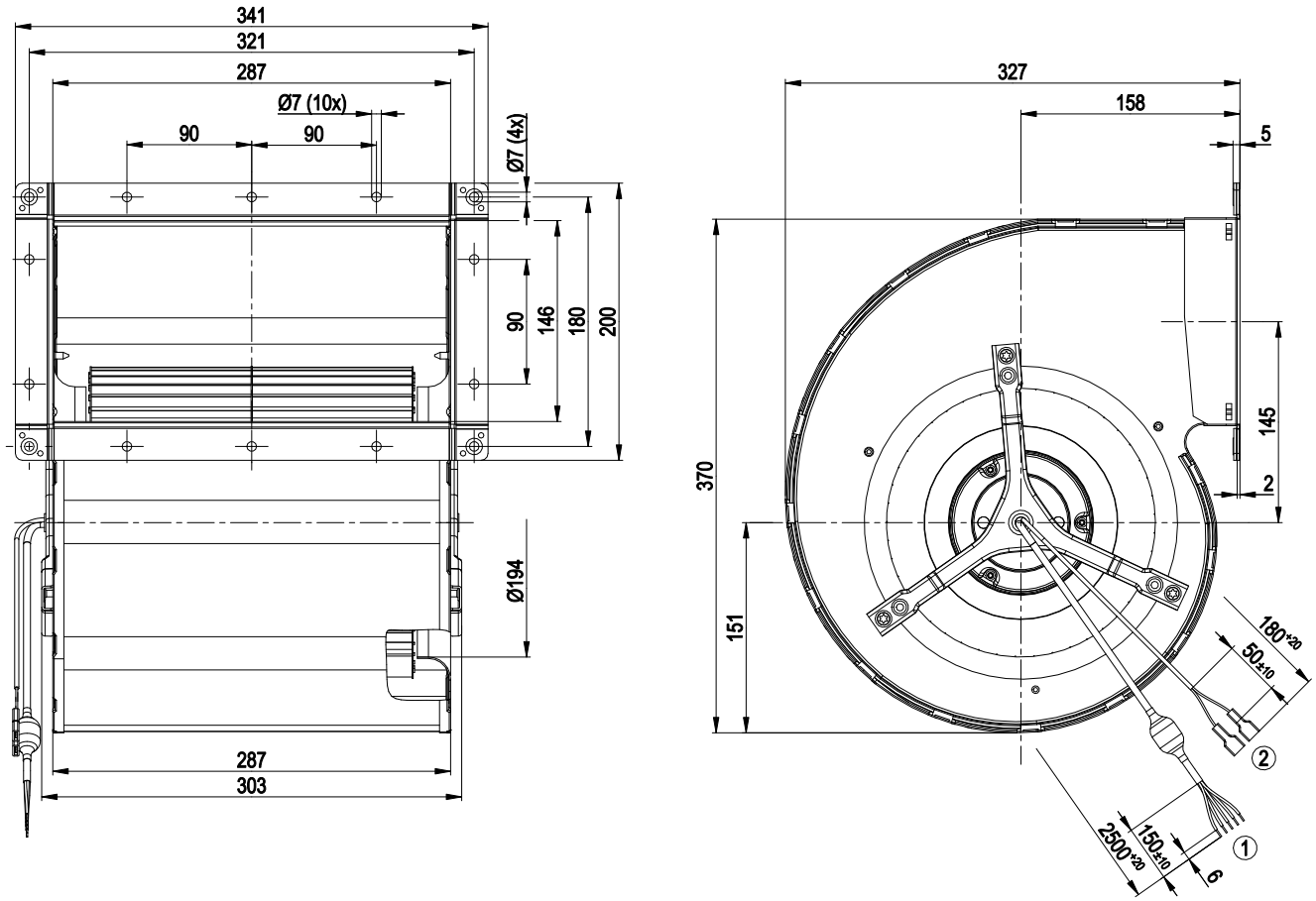
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Product drawing



1	Cable ETFE 5x AWG20
2	Cable ETFE AWG20, 2x flat push-on receptacle 6.3 x 0.8, 2x insulating sleeve SES 105-01

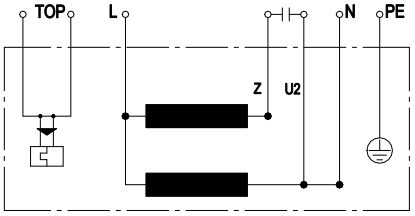
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Connection diagram



L	blue	Z	brown	U2	black
N	black	PE	green/yellow	TOP	2x gray

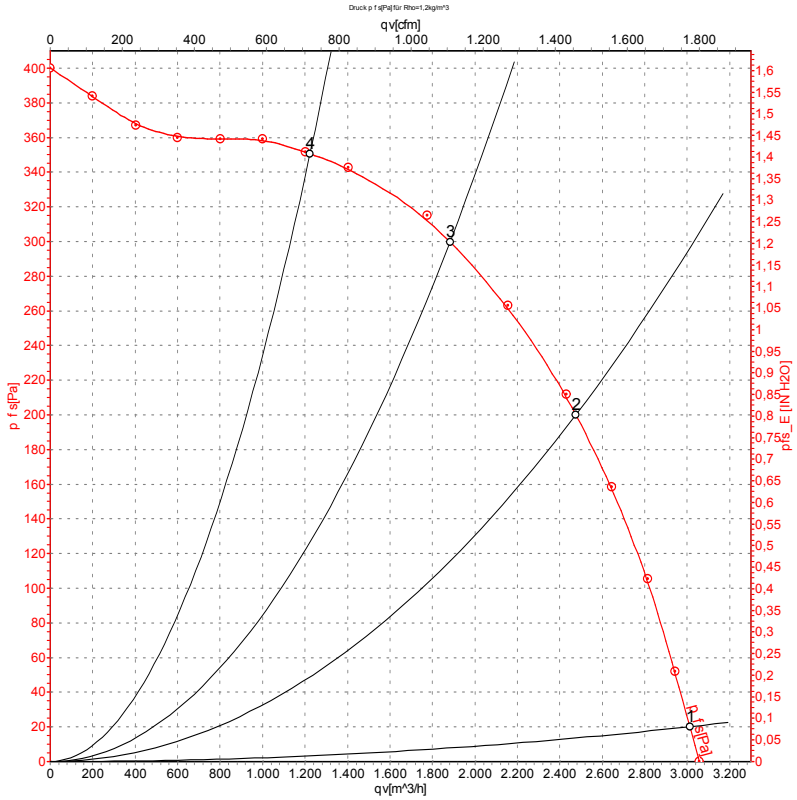
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Curves: Air performance 50 Hz



Measurement: LU-105284-1

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	1100	700	3.05	3015	20	1775	0.08
2	230	50	1290	602	2.72	2475	200	1455	0.80
3	230	50	1360	504	2.35	1885	300	1110	1.20
4	230	50	1410	425	2.06	1225	350	720	1.41

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

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