

D4E225-CC01-39

AC centrifugal fan

forward-curved, double-inlet
with housing (large flange)

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Amtsgericht (court of registration) Stuttgart · HRB 590142



Nominal data

Type	D4E225-CC01-39		
Motor	M4E074-LA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data			
Valid for approval/standard			
Speed (rpm)			
Power consumption			
Current draw			
Capacitor			
Capacitor voltage			
Capacitor standard			
Min. back pressure			
Min. ambient temperature	°C	-25	-25
Max. ambient temperature			30

mI = Max. load ·
Subject to change

Customer specification · ce = Customer equipment

Data according to ErP directive

Installation category	B
Efficiency category	Total
Variable speed drive	No
Specific ratio *	1.00

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

		Actual	Req. 2013	Req. 2015
Overall efficiency η	%	36.5	33.9	40.9
Efficiency grade N		44.4	42	49
Power consumption P_e	kW	0.57		
Air flow q_v	m ³ /h	2205		
Pressure increase p_f	Pa	345		
Speed (rpm) n	min ⁻¹	1305		

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



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Technical description

Weight	13.4 kg
Motor size	225 mm
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Guard grille material	Steel, galvanized and coated with white-aluminium plastic (RAL 9006)
Motor suspension	Motor mount with vibration damping on both sides
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP 22
Insulation class	«B»
Humidity protection class	F2-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	
Condensation drainage holes	
Mode	
Motor protection	
Touch current acc. to IEC 60990 (measuring circuit Fig. 4, TN system)	
TN system)	
Motor protection	With thermostat (TW)
Protection class	protective earth connected by customer)
Conformity with standards	1; CE
Approval	CSA C22.2 №100; UL 1004-1; CCC

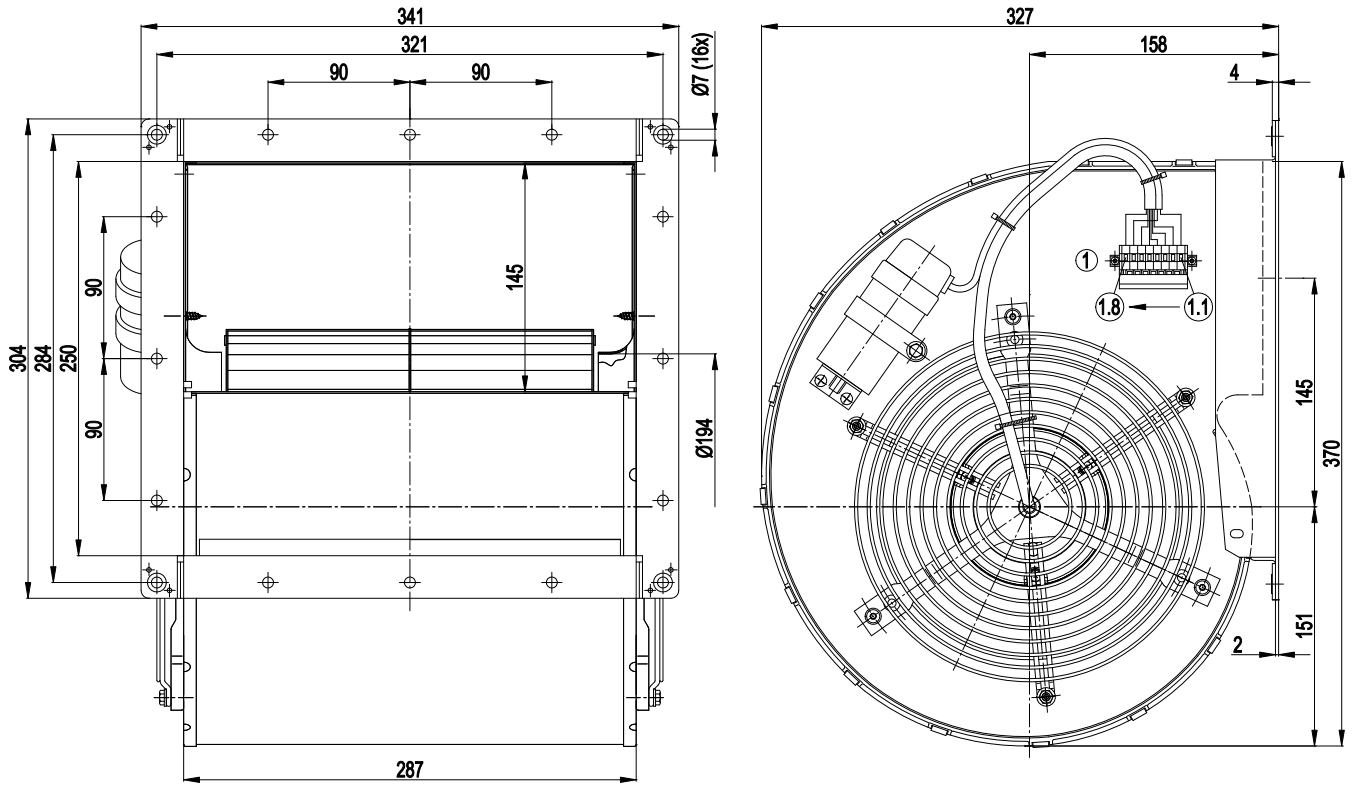


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Product drawing



1	Wiring
1.1	Capacitor
1.2	Z
1.3	U1
1.4	TW
1.5	PE
1.6	TW
1.7	Capacitor
1.8	U2

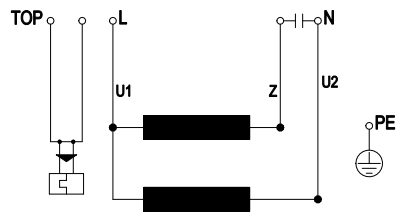


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Connection diagram



TOP	2 x gray	U1	blue	Z	Brown
U2	Black	PE	green/yellow		

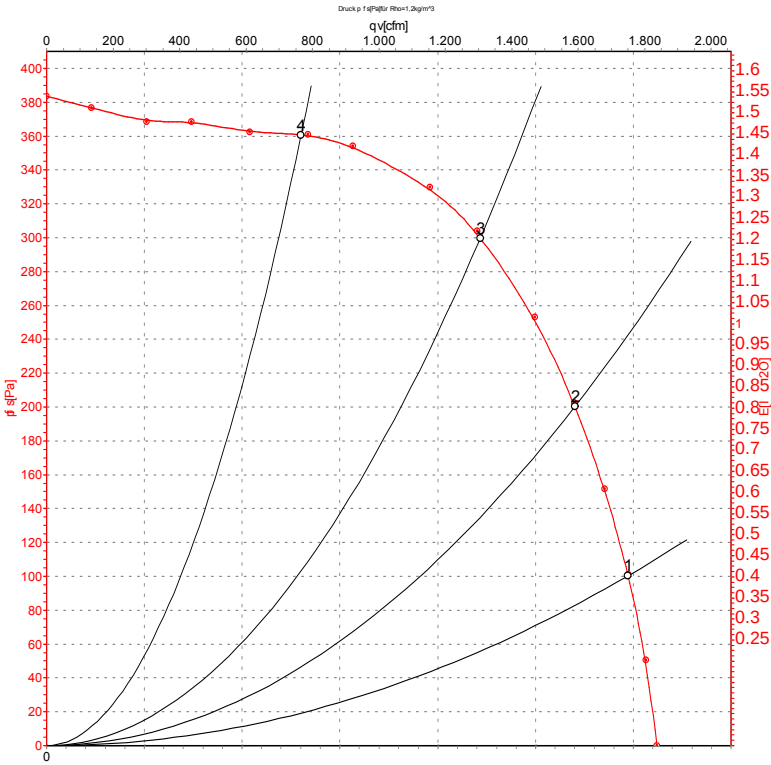


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Curves: Air performance 50 Hz



Measurement: LU-35314

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 must be checked in the installed unit.

Measured values

	U						
	V						
1	230	50	1150	783	3.42	2975	100
2	230	50	1195	689	3.05	2700	200
3	230					2215	300
4	230					1300	360

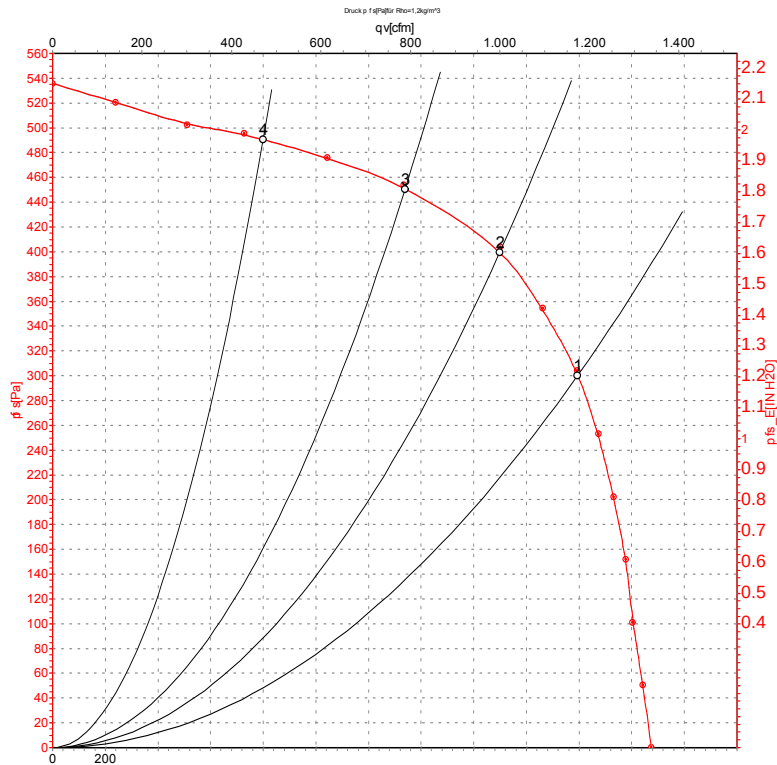
U = Supply voltage e consumption · I = Current draw · qv = Air flow · p ts= Pressure increase



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Curves: Air performance 60 Hz



Measurement: LU-35316

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 must be checked in the installed unit.

Measured values

	U						
	V						
1	230	60	1300	646	2.81	1995	300
2	230	60	1465	553	2.43	1700	400
3	230					1340	450
4	230					800	490

U = Supply voltage

e

consumption · I = Current draw · qv = Air flow · p

p/s = Pressure increase

