D4E240-AA03-10

AC centrifugal fan

forward-curved, dual-intake

with housing (without flange)

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Nominal data

Type	**D4E240-AA03-10**		
Motor	**M4E094-IF**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	60	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	UL
Speed (rpm)	min^{-1}	1230	1230
Power consumption	W	1105	1200
Current draw	A	4.82	
Capacitor	µF	22	22
Capacitor voltage	VDB	500	500
Capacitor standard		S2 (CE)	UL
Min. back pressure	Pa	70	70
Min. back pressure	inH2O	0.28	0.28
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50

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	13.1 kg
Fan size	240 mm
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	IP00
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F0
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)	<= 3.5 mA
Electrical hookup	Via terminal strip, capacitor connected
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
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 60034-1 (2010); CE
Approval	UL 1004-1

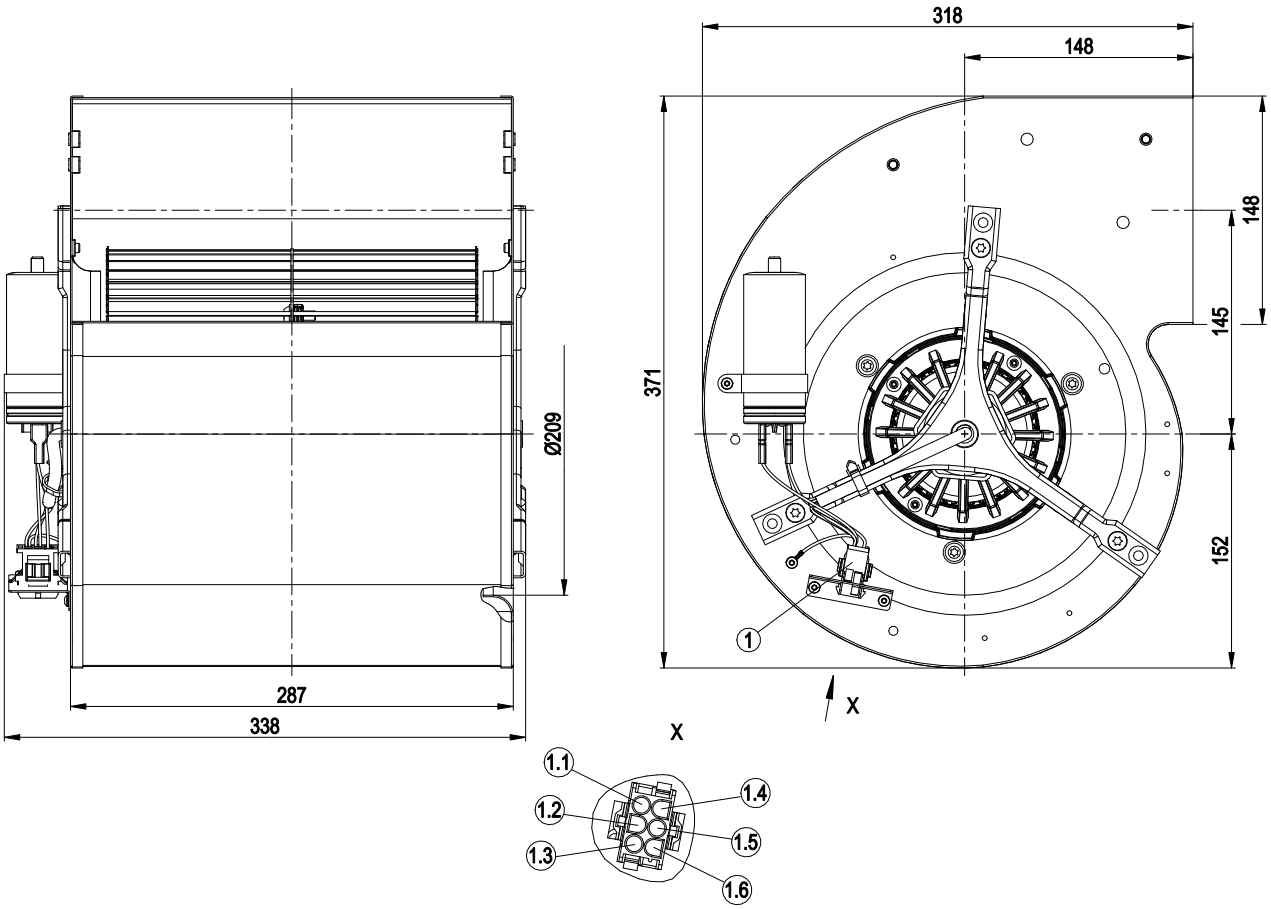
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Product drawing



1	Cable FEP AWG18, 6-pole connector housing tyco 770027-1 with 3x crimped plug pin tyco 770007-1
1.1	PE (green/yellow)
1.2	N (black + capacitor)
1.3	not used
1.4	not used
1.5	not used
1.6	L (blue)

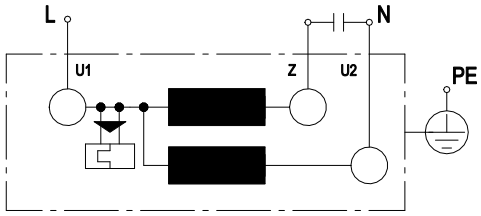
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Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

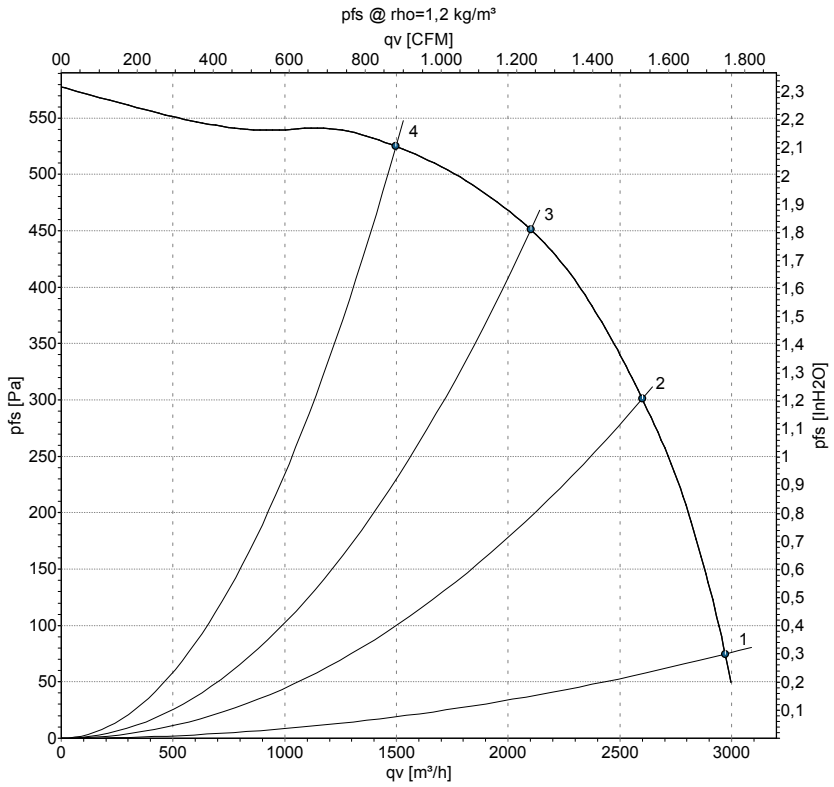
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Curves: Air performance 60 Hz



Measurement: LU-66364-1

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	inH2O
1	230	60	1230	1105	4.82	2970	70	1750	0.28
2	230	60	1460	1056	4.59	2600	300	1530	1.20
3	230	60	1575	998	4.42	2100	450	1235	1.81
4	230	60	1640	928	4.22	1495	525	880	2.11

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

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