

D2E160-AB01-06

# AC centrifugal fan

forward-curved, dual-intake  
with housing (without flange)



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## Nominal data

Type	D2E160-AB01-06	
Motor	M2E074-FA	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		-
Speed (rpm)	min <sup>-1</sup>	1850
Power consumption	W	410
Current draw	A	1.8
Capacitor	µF	10
Capacitor voltage	VDB	400
Capacitor standard		S0 (CE)
Min. back pressure	Pa	200
Min. back pressure	inH <sub>2</sub> O	0.8
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40
Starting current	A	1.73

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



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## Technical description

<b>Weight</b>	6.4 kg
<b>Fan size</b>	160 mm
<b>Rotor surface</b>	Partly cast in aluminum
<b>Impeller material</b>	Sheet steel, hot-dip galvanized
<b>Housing material</b>	Sheet steel, hot-dip galvanized
<b>Motor suspension</b>	Motor vibration-damped on both sides
<b>Direction of rotation</b>	Counterclockwise, viewed toward rotor
<b>Degree of protection</b>	IP20
<b>Insulation class</b>	"F"
<b>Moisture (F) / Environmental (H) protection class</b>	H0 - dry environment
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+ 80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	- 40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Thermal overload protector (TOP) internally connected
<b>With cable</b>	Axial
<b>Protection class</b>	I (with customer connection of protective earth)
<b>Conformity with standards</b>	EN 60335-1
<b>Approval</b>	CCC; EAC

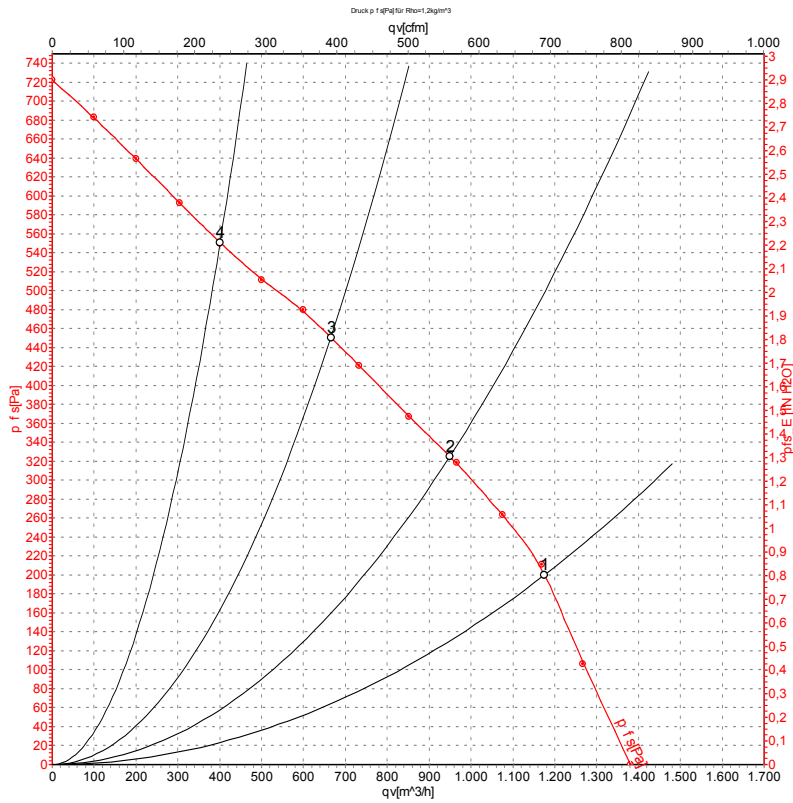




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## Curves: Air performance 50 Hz



Measurement: LU-105277-1

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 <sub>e</sub>	I	q <sub>v</sub>	P <sub>is</sub>	q <sub>v</sub>	P <sub>is</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	inH <sub>2</sub> O
1	230	50	1850	410	1.80	1175	200	690	0.80
2	230	50	2120	381	1.66	950	325	560	1.30
3	230	50	2315	359	1.59	665	450	390	1.81
4	230	50	2430	344	1.54	400	550	235	2.21

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · P<sub>is</sub> = Pressure increase



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