

AC centrifugal fan

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

D2D133-DB08-05 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	D2D133-DB08-05		
Motor	M2D068-DF		
Phase		3~	3~
Nominal voltage	VAC	255	440
Wiring		Δ	Y
Frequency	Hz	60	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2400	2400
Power consumption	W	270	270
Current draw	A	0.66	0.38
Min. back pressure	Pa	250	250
Min. back pressure	in. wg	1	1
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	30	30
Starting current	A	61	61

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



AC centrifugal fan

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

Technical description

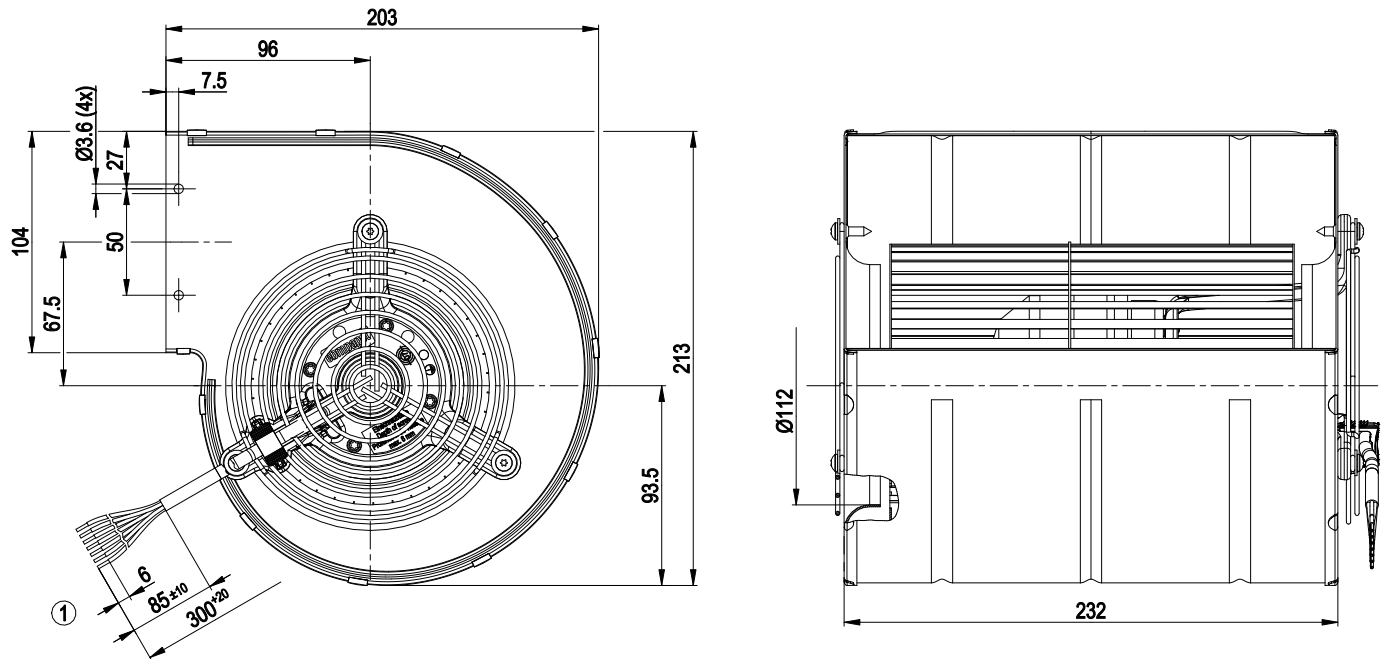
Weight	3.9 kg
Size	133 mm
Motor size	68
Rotor surface	Unpainted
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Guard grille material	Steel, coated with white-aluminum plastic (RAL 9006)
Motor suspension	Motor mounted with brackets on one side
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F1-1; H0+
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
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
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection; CE



AC centrifugal fan

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

Product drawing

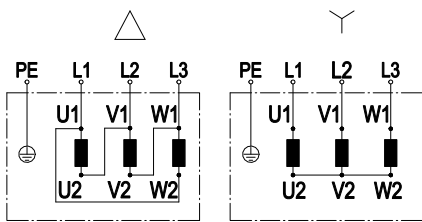


1 Cable PVC 7G 0.5 mm², 7x crimped splices

AC centrifugal fan

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

Connection diagram



Change of rotation direction by reversing two phases

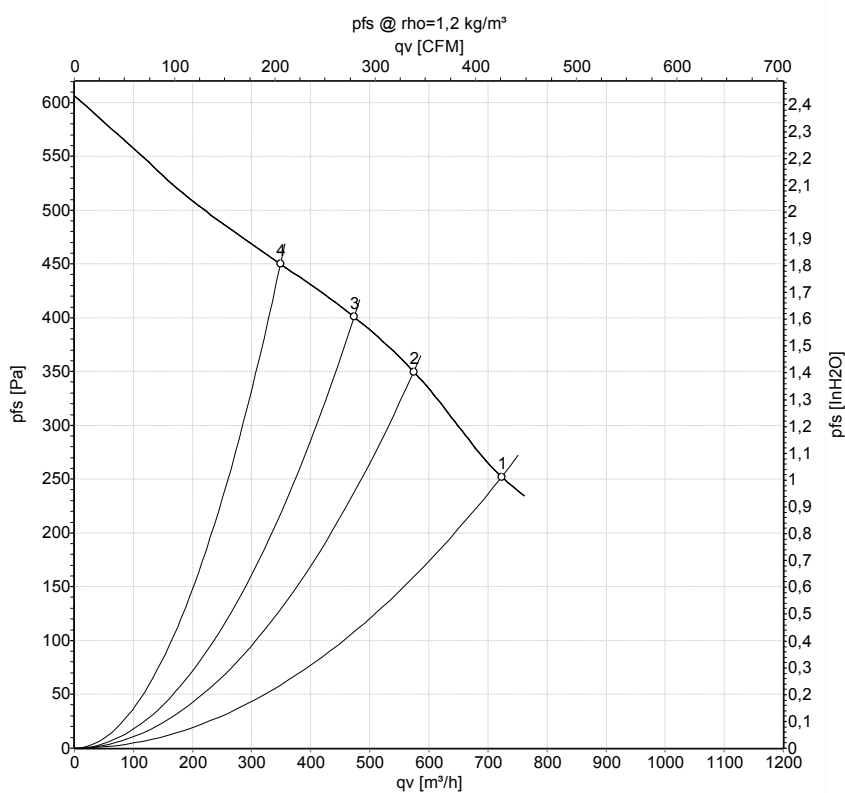
	Three-phase motor	Δ	Delta connection	Y	Star connection
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow
PE	green/yellow				



AC centrifugal fan

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

Curves: Air performance 60 Hz



Measurement: LU-8480-1

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	440	60	2400	270	0.38	725	250	425	1.00
2	440	60	2635	213	0.30	575	350	340	1.41
3	440	60	2770	190	0.27	475	400	280	1.61
4	440	60	2890	167	0.24	350	450	205	1.81

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

