

AC centrifugal fan

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

D2D133-AB06-32 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	D2D133-AB06-32		
Motor	M2D068-DF		
Phase		3~	3~
Nominal voltage	VAC	400	400
Nominal voltage range	VAC	360 .. 480	360 .. 480
Wiring		Y	Y
Frequency	Hz	50	60
Method of obtaining data		cs	cs
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2500	2600
Power consumption	W	120	165
Current draw	A	0.2	0.25
Min. back pressure	Pa	250	275
Min. back pressure	inH ₂ O	1	1.1
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	-	-

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

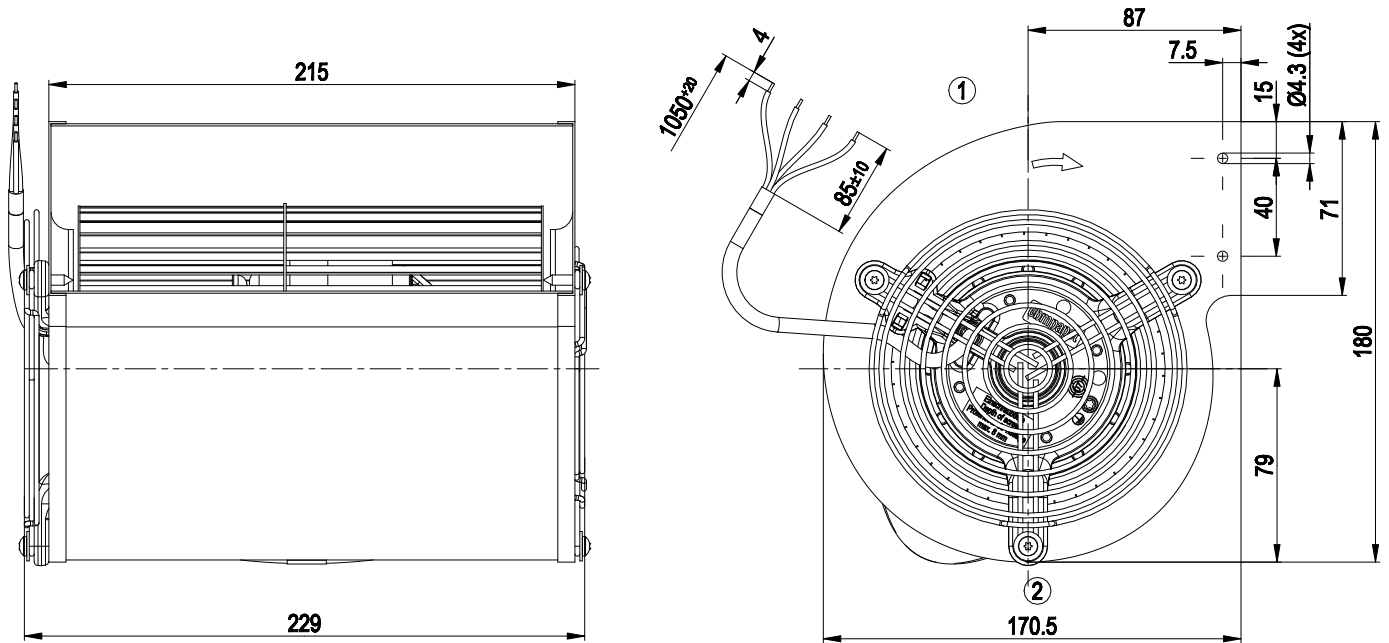
Weight	4 kg
Fan size	133 mm
Rotor surface	Unpainted
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Guard grille material	Steel, phosphated and coated with white-aluminum plastic (RAL 9006)
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F1-1
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
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection; CE
Approval	UL 1004-1; CSA C22.2 No. 100



AC centrifugal fan

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

Product drawing

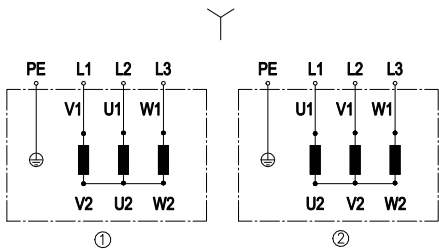


- | | |
|---|--|
| 1 | Cable PFA 1x AWG18, 3x AWG20, without fastening parts |
| 2 | Included separately: 4-pole connector housing tyco 350779-4, 4x socket tyco 926884-1, 4-pole connector housing tyco 926305-7, 3x plug pin tyco 926885-1, 1x plug pin tyco 350654-1 |

AC centrifugal fan

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

Connection diagram



Change of rotation direction by reversing two phases

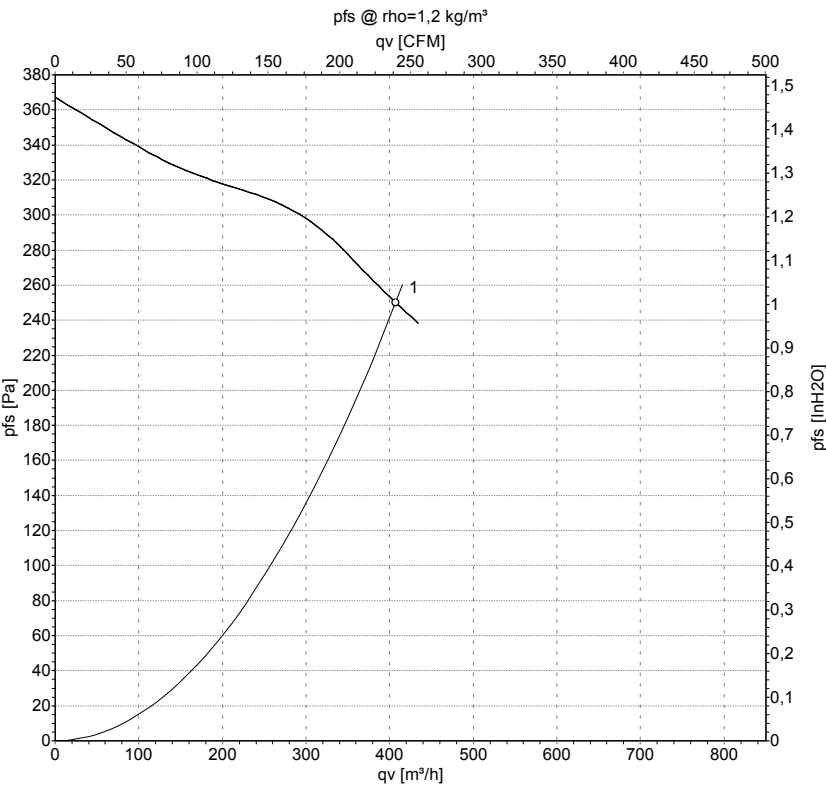
	Three-phase motor
Y	Star connection
1	Counterclockwise operation
L1	= V1 = blue
L2	= U1 = black
L3	= W1 = brown
2	Clockwise operation
L1	= U1 = black
L2	= V1 = blue
L3	= W1 = brown
PE	green/yellow



AC centrifugal fan

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

Curves: Air performance 50 Hz



Measurement: LU-21953-1

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	m³/h	Pa	cfm	inH2O
1	400	50	2500	120	0.20	405	250	240	1.00

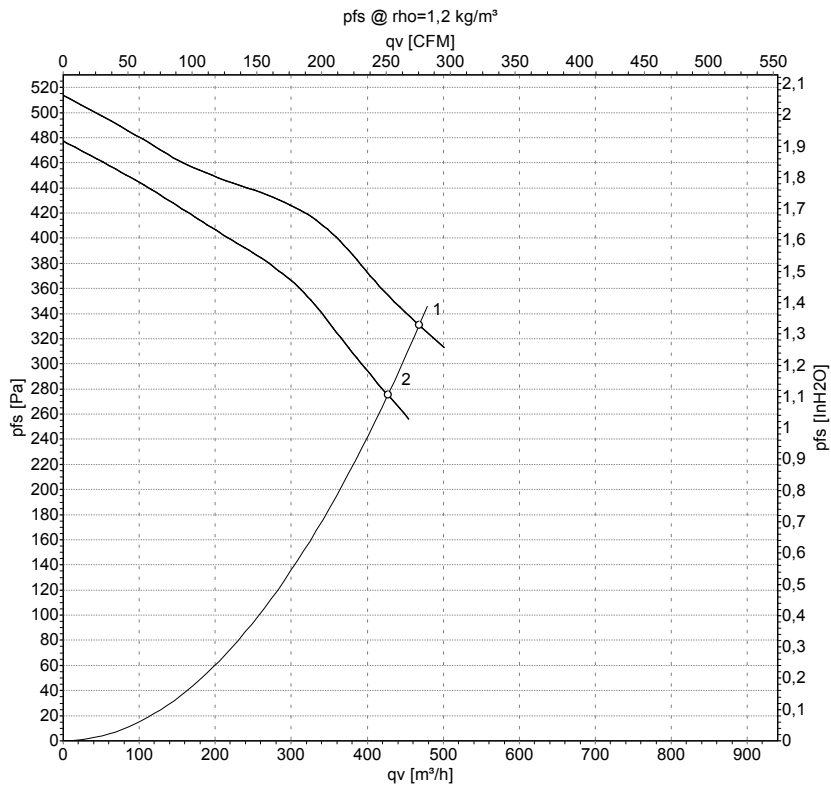
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



AC centrifugal fan

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

Curves: Air performance 60 Hz



Measurement: LU-21955-1
Measurement: LU-21954-1

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	m³/h	Pa	cfm	inH2O
1	480	60	2850	195	0.25	470	330	275	1.32
2	400	60	2600	165	0.25	425	275	250	1.10

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

