

AC centrifugal fan

forward curved, dual inlet
with housing (flange)

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Limited partnership · Headquarters Mulfingen

County court Stuttgart · HRA 590344

General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142



Nominal data

Type	D2D160-BE02-11			
Motor	M2D074-LA			
Phase		3~	3~	3~
Nominal voltage	VAC	230	400	400
Connection		Δ	Y	Y
Frequency	Hz	50	50	60
Type of data definition		ml	ml	ml
Valid for approval / standard		CE	CE	UL
Speed	min ⁻¹	2700	2700	3000
Power input	W	700	700	1055
Current draw	A	2.2	1.28	
Min. back pressure	Pa	400	400	500
Max. ambient temperature	°C	75	75	-

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive integrated	No
Specific ratio*	1,01

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

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	32,4	28,5	35,5
Efficiency grade N	40,9	37	44
Power input P_e	kW	0,46	
Air flow q_v	m ³ /h	1000	
Pressure increase p_{fs}	Pa	538	
Speed n	min ⁻¹	2820	

Data established at point of optimum efficiency



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Technical features

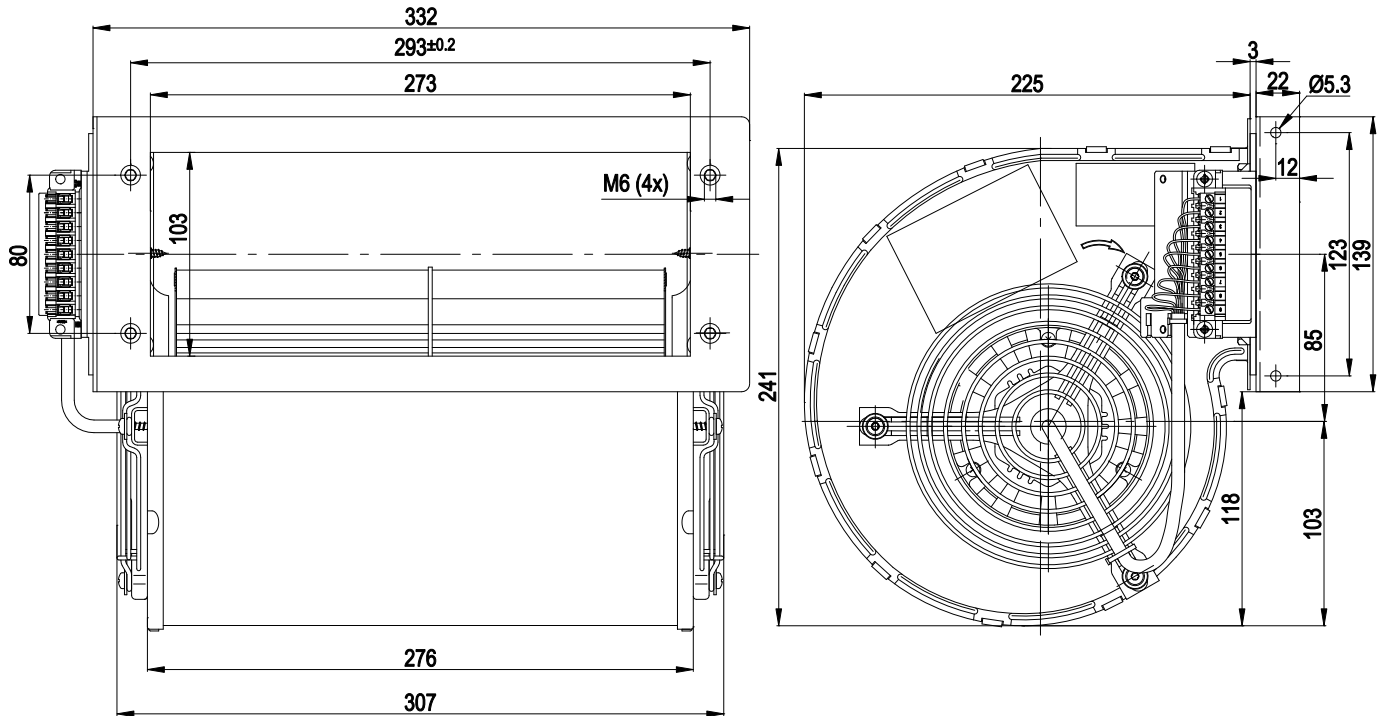
Mass	10.9 kg
Size	160 mm
Surface of rotor	Rotor open, coated in black
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Material of guard grille	Steel, galvanised and plastic-coated in white aluminium (RAL 9006)
Motor suspension	Motor anti-vibration mounted on both sides
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 00
Insulation class	"F"
Humidity class	F2-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Leakage current	< 0.75 mA
Electrical leads	With plug
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC; CSA C22.2 Nr.100; UL 1004-1



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Product drawing



Connection via strip, Weidmüller 1612160000

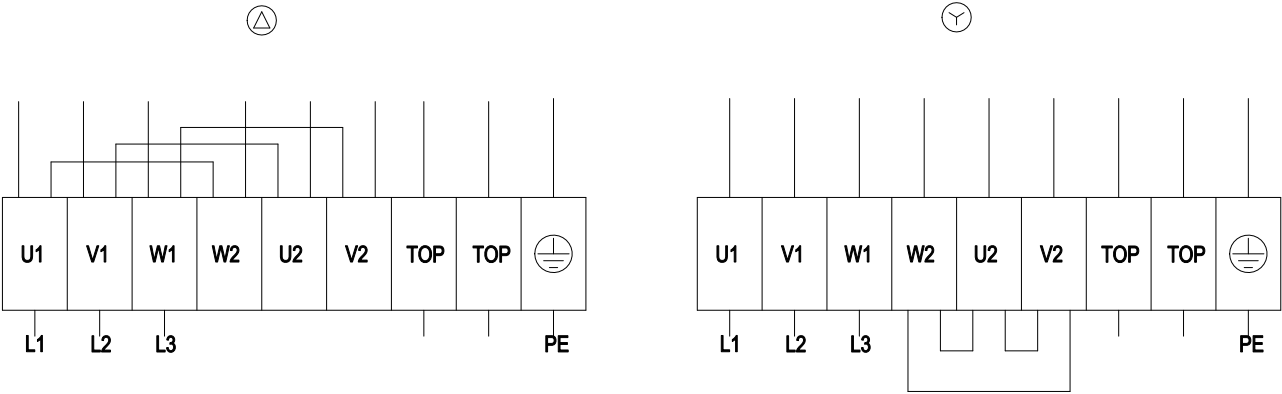
1	black
2	blue
3	brown
4	grey
5	green/yellow
6	grey
7	green
8	white
9	yellow



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Connection screen



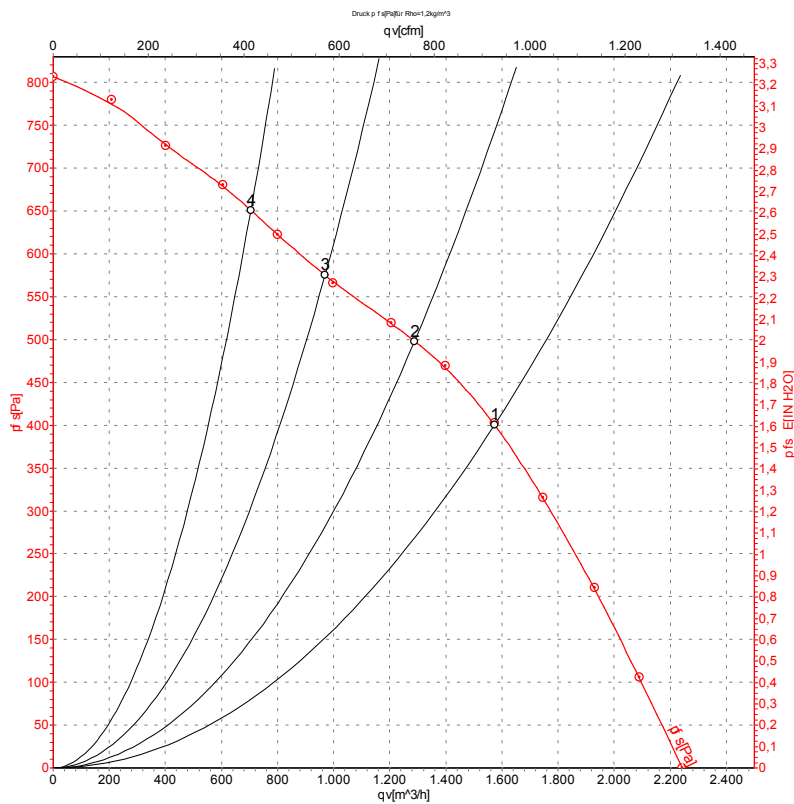
Δ	Delta-connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green / yellow				



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Charts: Air flow 50 Hz



Measurement: LU-112482

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: L_{WA} measured as per ISO 13347 /
L_{pA} measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

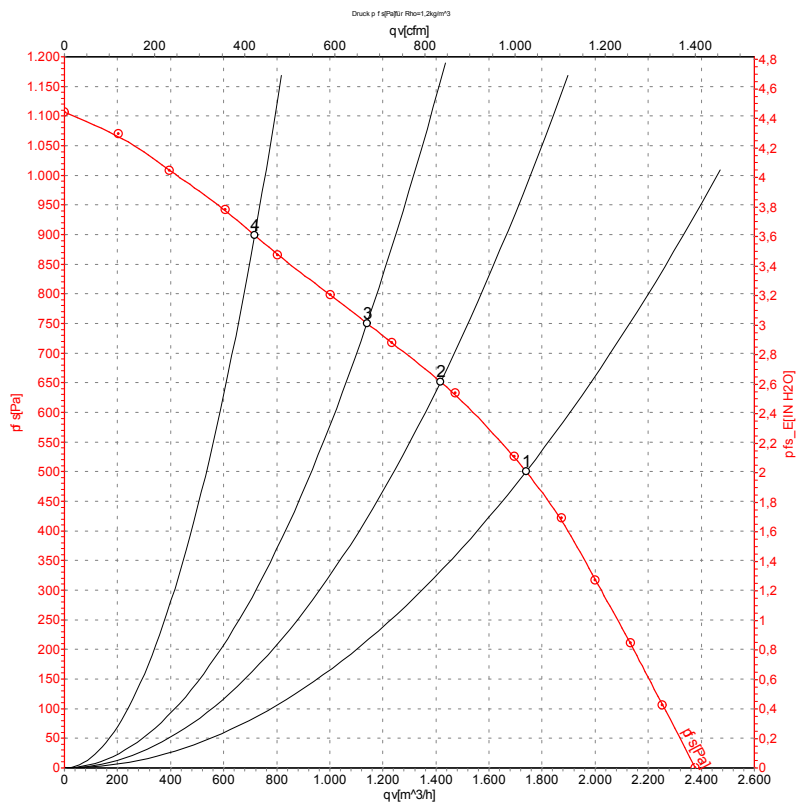
	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	400	50	2700	700	1.28	1575	400
2	400	50	2775	564	1.10	1290	500
3	400	50	2825	454	0.96	970	575
4	400	50	2855	387	0.89	705	650



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Charts: Air flow 60 Hz



Measurement: LU-112483

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	400	60	3000	1055	1.70	1740	500
2	400	60	3130	851	1.39	1415	650
3	400	60	3215	728	1.21	1140	750
4	400	60	3300	592	1.01	715	900

