W2D300-CP02-48

AC axial fan

sickle-shaped blades (S series)

with round full nozzle

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Nominal data

Type	**W2D300-CP02-48**
Motor	**M2D074-DF**

Phase		3~	3~
Nominal voltage	VAC	400	460
Wiring		Y	Y
Frequency	Hz	60	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	UL
Speed (rpm)	min^{-1}	2750	2900
Power consumption	W	300	340
Current draw	A	0.48	0.51
Max. back pressure	Pa	125	125
Max. back pressure	inH2O	0.5	0.5
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	40	45
Starting current	A	1.1	

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	5.3 kg
Fan size	300 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Sheet steel, pre-galvanized and coated with black plastic
Guard grille material	Steel, phosphated and coated with black plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F2-2
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	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	UL 1004-1; CSA C22.2 No. 100

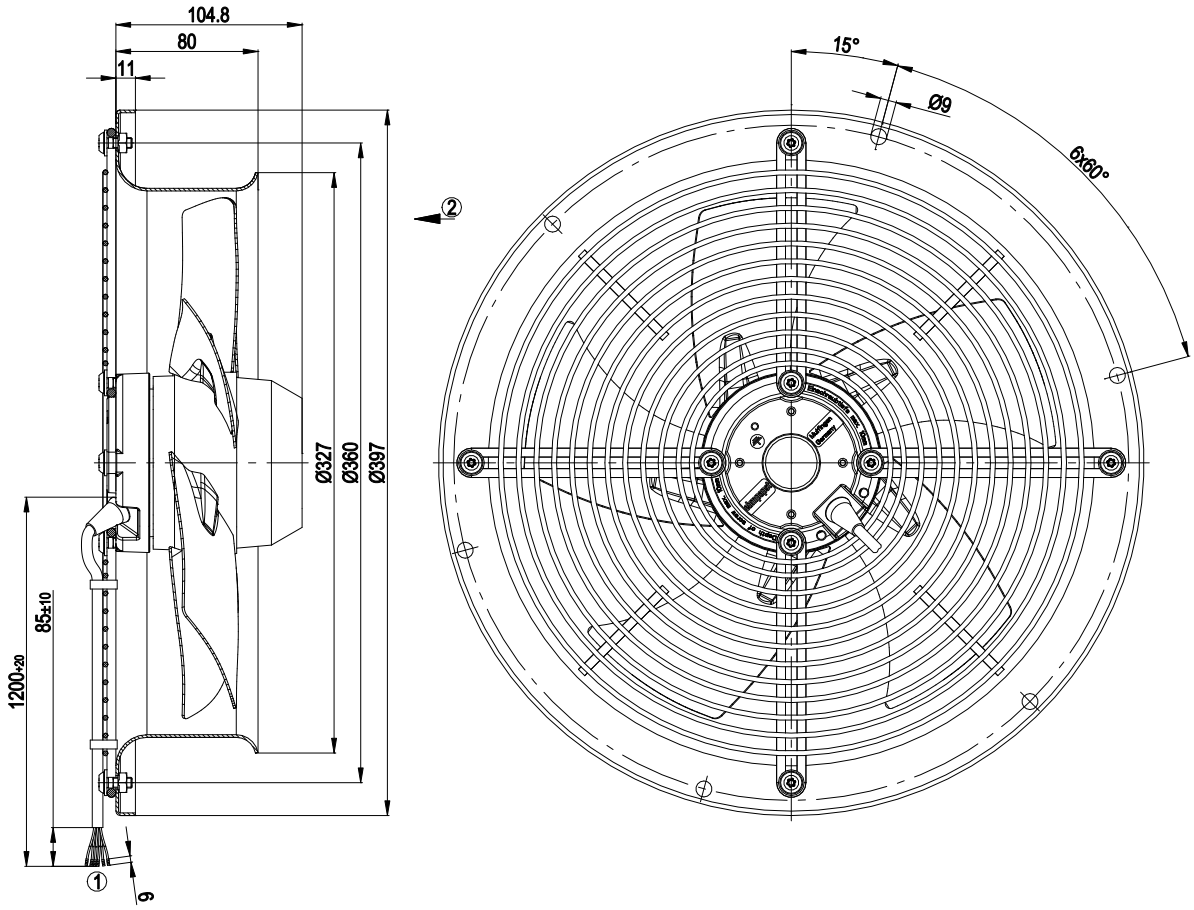
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Product drawing



1	Cable PFA, 6x crimped splices
2	Direction of air flow "V"

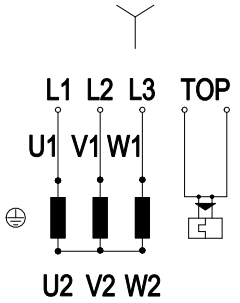
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Connection diagram



Y	Star connection	L1	black	L2	blue
L3	brown	TOP	2x gray		

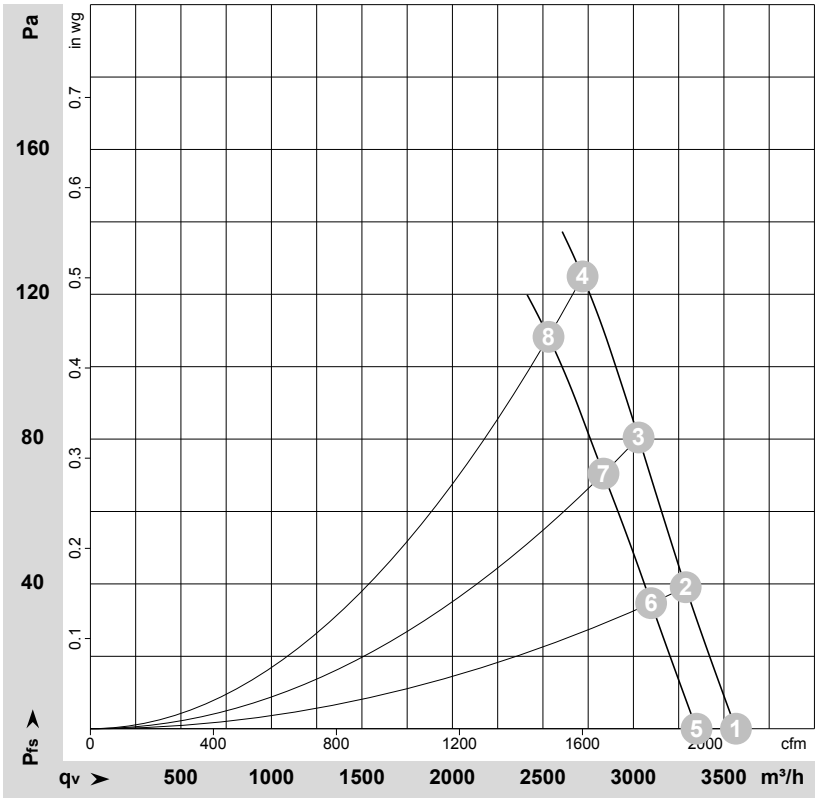
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Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-62734-1
Measurement: LU-62733-1

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	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	460	60	2900	328	0.44	3565	0	2100	0.00
2	460	60	2855	348	0.46	3290	40	1935	0.16
3	460	60	2810	364	0.48	3030	80	1785	0.32
4	460	60	2755	382	0.51	2720	125	1600	0.50
5	400	60	2750	300	0.48	3350	0	1970	0.00
6	400	60	2695	315	0.48	3100	35	1825	0.14
7	400	60	2640	328	0.50	2835	70	1670	0.28
8	400	60	2580	341	0.51	2530	108	1490	0.43

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

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