

AC axial fan

straight blades (A series)

Fan housing with guard grille

W4E350-DA20-52 ebmpapst Datasheet

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Nominal data

Type	W4E350-DA20-52	
Motor	M4E068-EC	
Phase		1~
Nominal voltage	VAC	115
Frequency	Hz	60
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	1540
Power consumption	W	193
Current draw	A	1.68
Capacitor	μF	20
Capacitor voltage	VDB	220
Max. back pressure	Pa	90
Max. back pressure	inH ₂ O	0.36
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	25
Starting current	A	2.4

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	6.6 kg
Fan size	350 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Sheet steel, pre-galvanized and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Airflow direction	"A"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-1
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	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	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) internally connected
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	UL 2111; CSA C22.2 No. 77

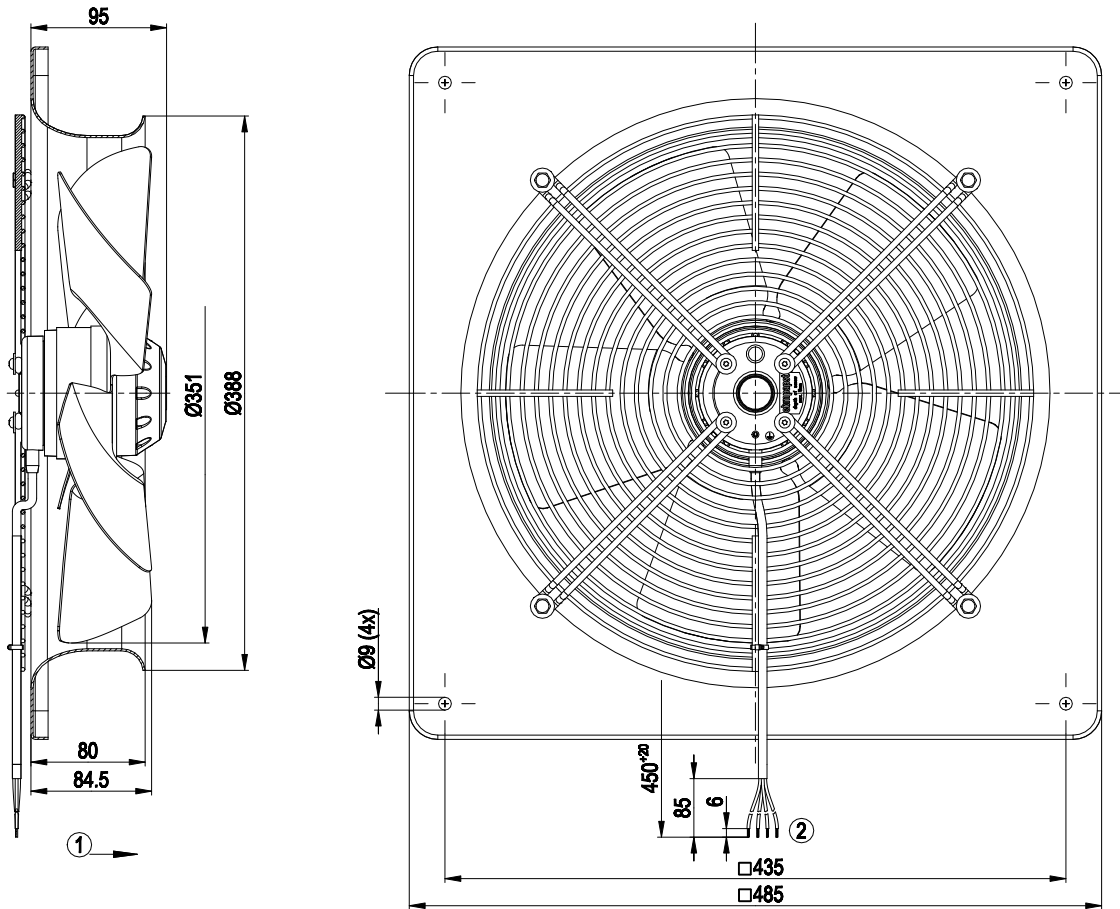


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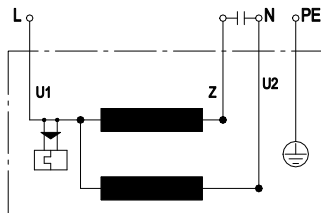
Fan housing with guard grille

Product drawing



- | | |
|---|---|
| 1 | Direction of air flow "A" |
| 2 | Cable PVC 4G 0.5 mm ² , 4x crimped splices |

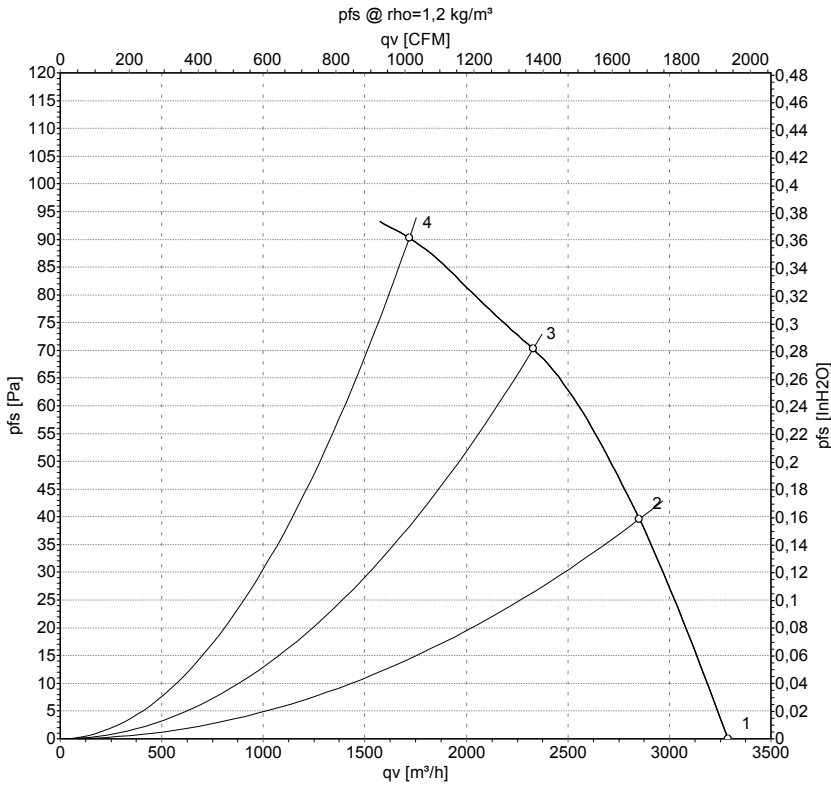
Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				



Curves: Air performance 60 Hz



Measurement: LU-58187-1

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	115	60	1540	193	1.68	3290	0	1935	0.00
2	115	60	1485	207	1.80	2850	40	1680	0.16
3	115	60	1430	220	1.90	2330	70	1370	0.28
4	115	60	1385	225	1.96	1720	90	1010	0.36

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

