

R4D310-AA02-11 ebmpapst Datasheet

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Nominal data

Type	R4D310-AA02-11		
Motor	M4D068-EC		
Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	1390	1050
Power consumption	W	100	75
Current draw	A	0.21	0.12
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	60

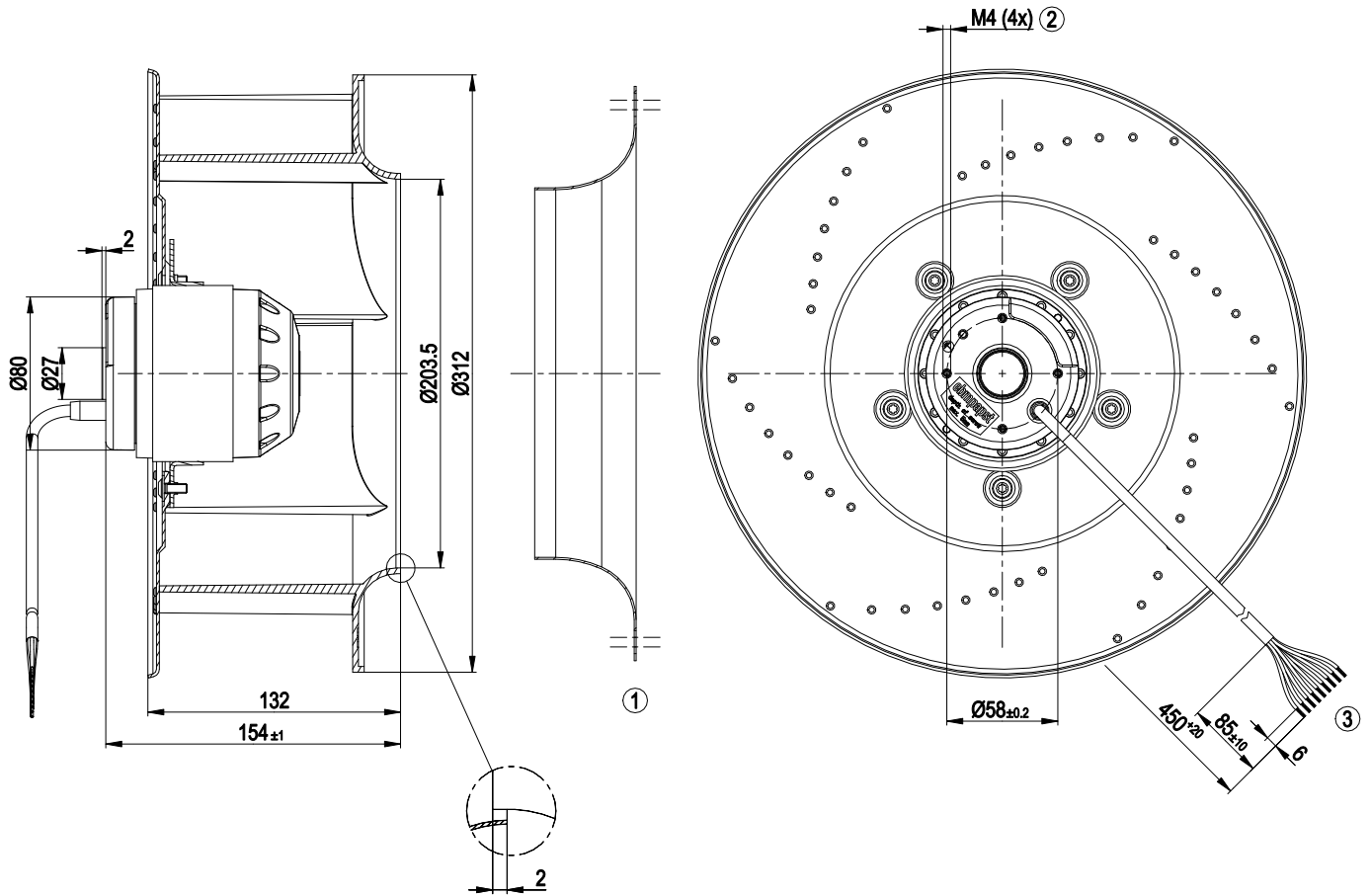
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

Weight	3.6 kg
Fan size	310 mm
Rotor surface	Painted black
Impeller material	PA plastic
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
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) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

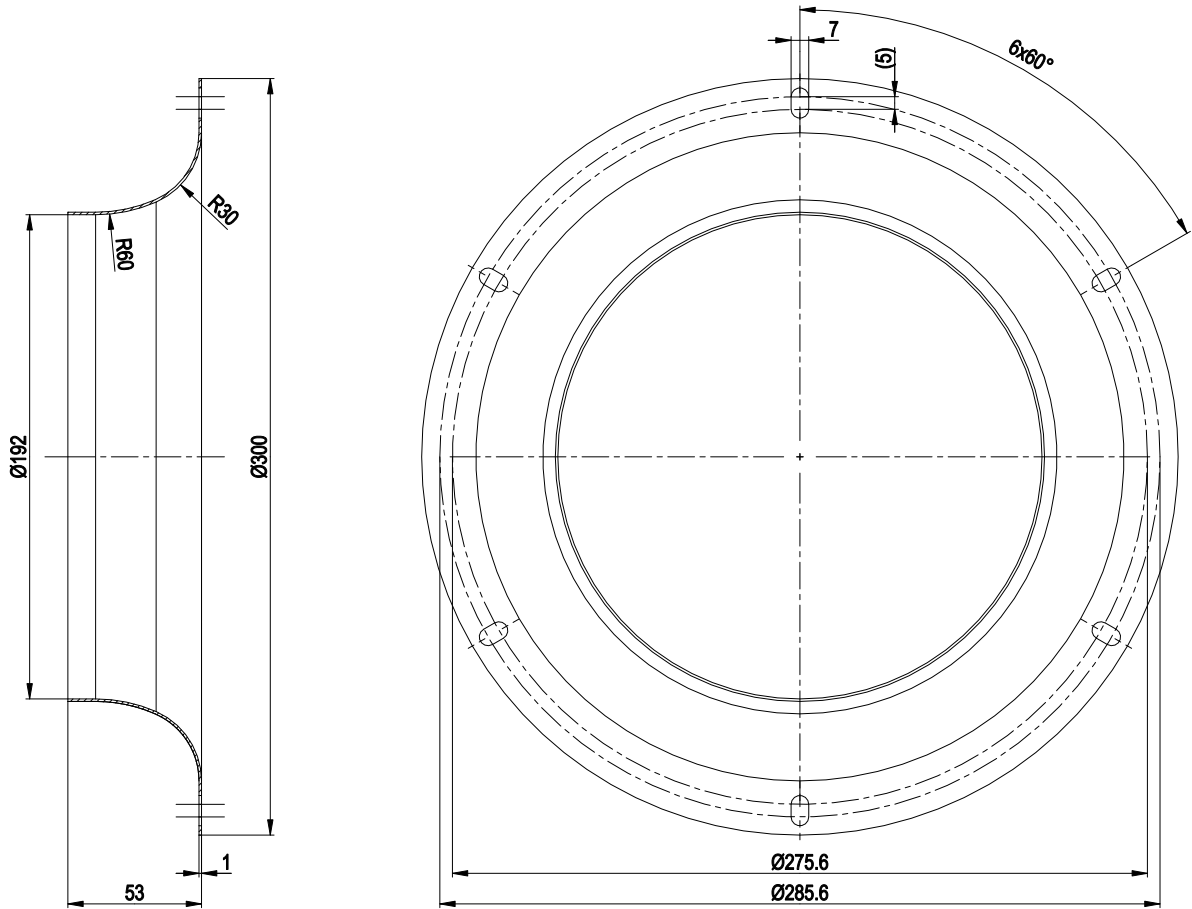
Product drawing



1	Accessory part: inlet ring 97512-2-4013 not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Cable PVC AWG20, 9x crimped splices



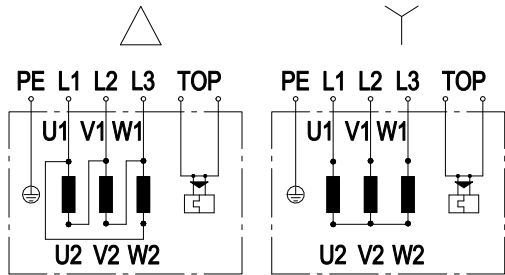
Accessory part



Accessory part: inlet ring 97512-2-4013 not included in scope of delivery



Connection diagram

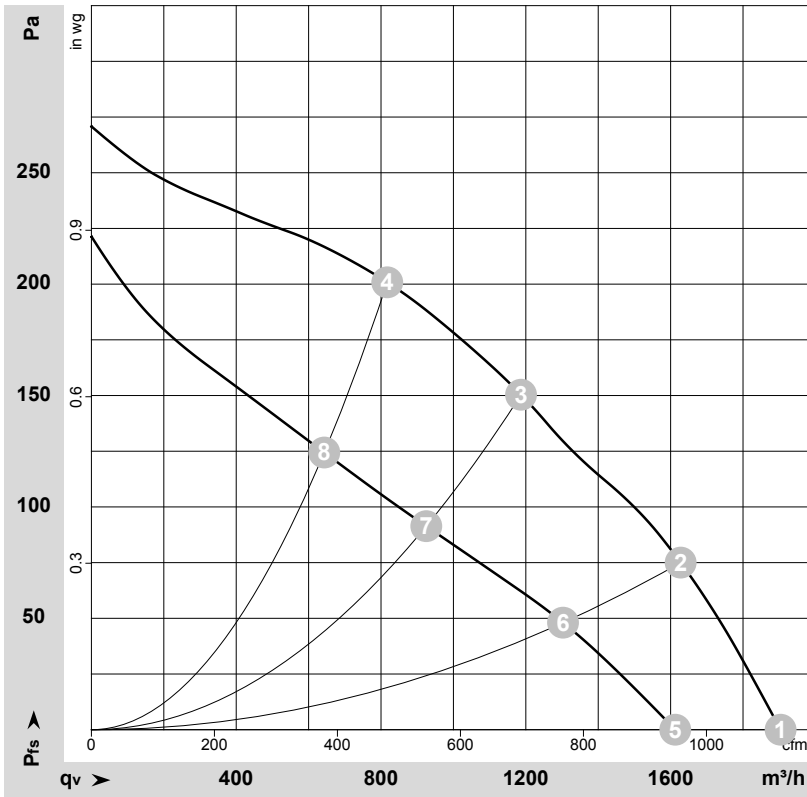


Note: Change of rotation direction by reversing two phases

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



Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-23319-1
Measurement: LU-23163-1

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

	Wired	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	Δ	400	50	1390	100	0.21	1905	0	1120	0.00
2	Δ	400	50	1365	111	0.23	1630	75	960	0.30
3	Δ	400	50	1350	123	0.24	1185	150	700	0.60
4	Δ	400	50	1355	120	0.24	815	200	480	0.80
5	Y	400	50	1050	75	0.12	1615	0	950	0.00
6	Y	400	50	1095	84	0.14	1305	49	765	0.20
7	Y	400	50	1060	88	0.15	925	91	545	0.37
8	Y	400	50	1065	87	0.15	645	124	380	0.50

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

