

R4D175-AE08-10 ebmpapst Datasheet

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Nominal data

Type	R4D175-AE08-10	
Motor	M4D068-BF	
Phase		3~
Nominal voltage	VAC	380
Connection		Y
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min ⁻¹	1450
Power input	W	33
Current draw	A	0.1
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	45
Starting current	A	0.17

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



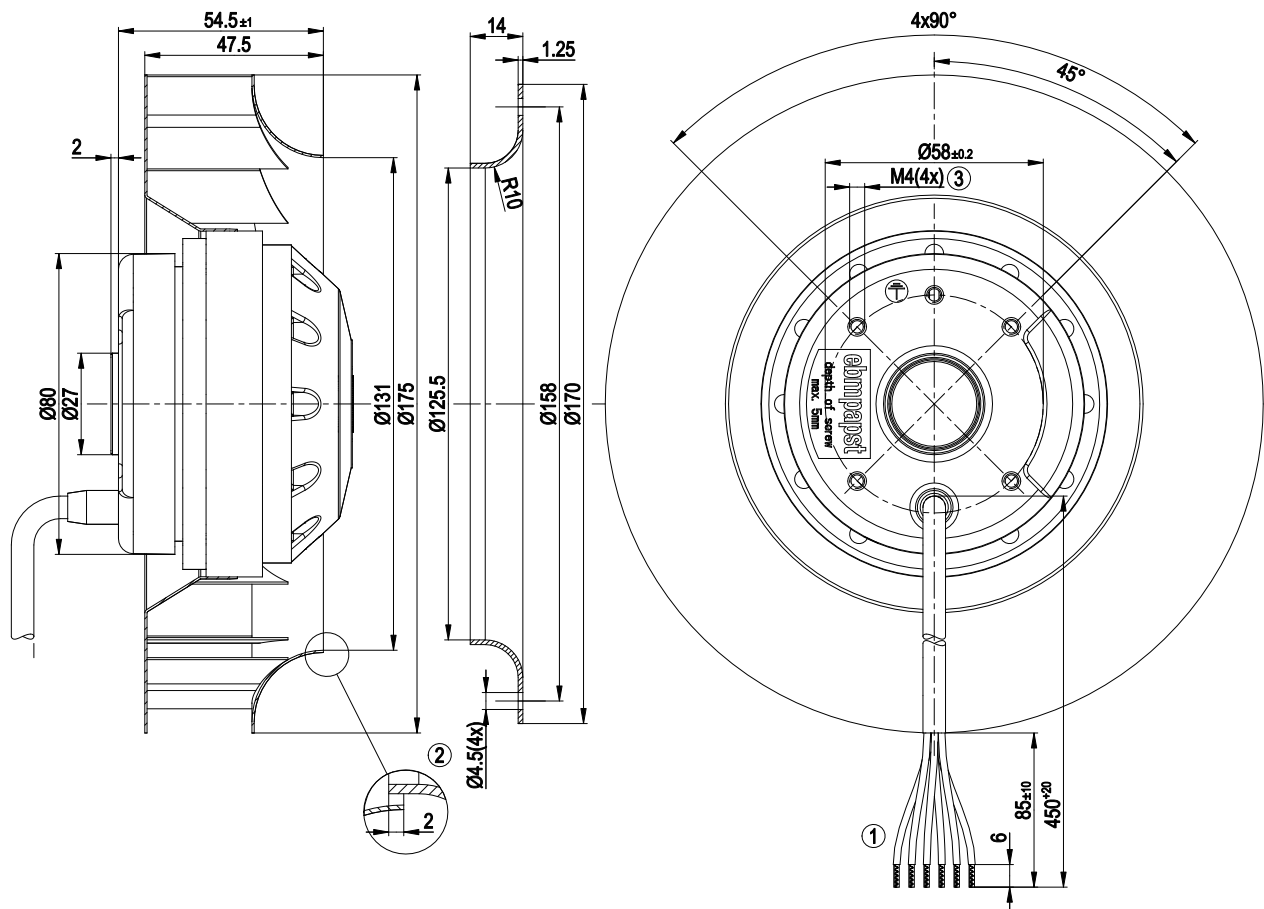
Technical features

Size	175 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, coated in black
Number of blades	16
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F5
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
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

AC centrifugal fan

backward curved, single inlet

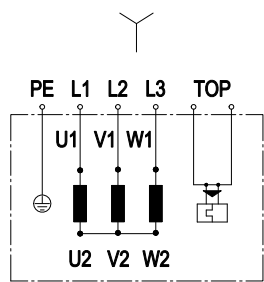
Product drawing



1	Connection line halogen-free 6G 0.5 mm ² , 6x brass lead tips crimped
2	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 5 mm



Connection screen



Note: Direction of rotation changes when two phases are reversed

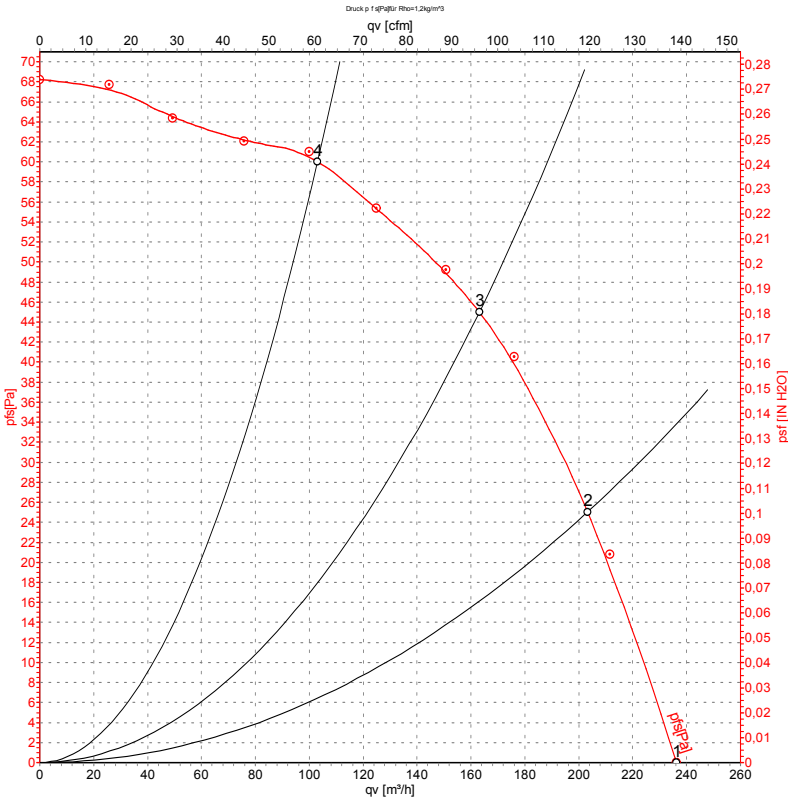
Y	Star connection	L1	= U1 = black	L2	= V1 = blue
L3	= W1 = brown	PE	green/yellow	TOP	2x grey



AC centrifugal fan

backward curved, single inlet

Charts: Air flow 50 Hz



Measurement: LU-139472

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	m ³ /h	Pa
1	380	50	1450	33	0.10	235	0
2	380	50	1455	33	0.10	205	25
3	380	50	1455	33	0.10	165	45
4	380	50	1460	33	0.10	105	60

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

