

AC centrifugal fan

forward curved, single inlet

R4E160-AQ08-09 ebmpapst Datasheet
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Nominal data

Type	R4E160-AQ08-09		
Motor	M4E068-CF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed (rpm)	min ⁻¹	1310	1410
Power input	W	55	75
Current draw	A	0.24	0.33
Motor capacitor	µF	1.5	1.5
Capacitor voltage	VDB	450	450
Capacitor standard		S0 (CE)	S0 (CE)
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	55	55
Starting current	A	0.42	0.4

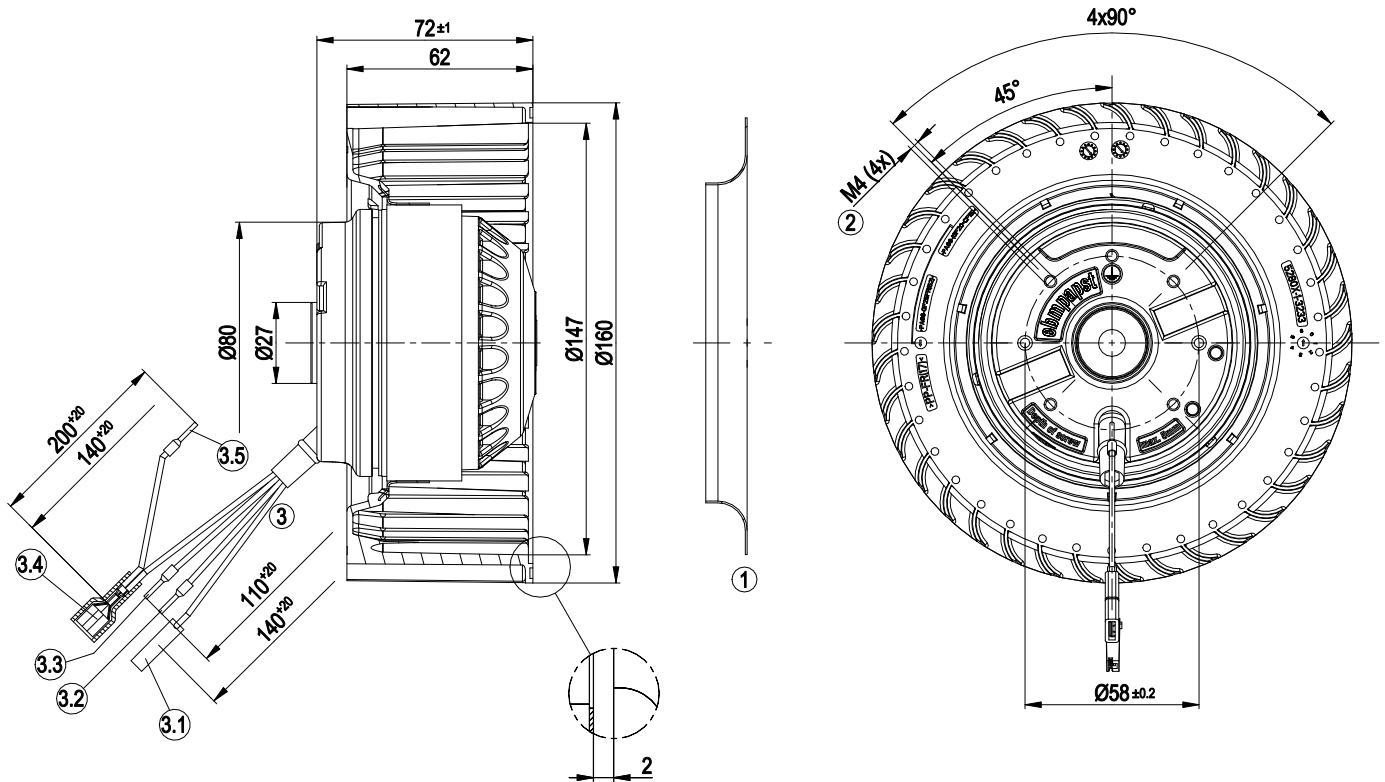
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



Technical features

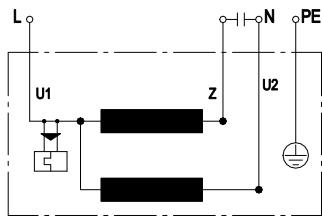
Mass	1.5 kg
Size	160 mm
Surface of rotor	Coated in black
Material of impeller	PP plastic
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity (F)/environmental protection class (H)	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Temperature limiter manual reset
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

Product drawing



1	Accessory part: Inlet nozzle 09588-2-4013 not included in scope of delivery
2	Thread reach max. 5 mm
3	Connection line AWG20
3.1	brown, threaded pin 2.8x0.8 with insulating sleeve
3.2	PE (green/yellow), core-end sleeve
3.3	L (blue), core-end sleeve
3.4	black, threaded pin 6.3x0.8 with insulating sleeve
3.5	black, core-end sleeve

Connection screen



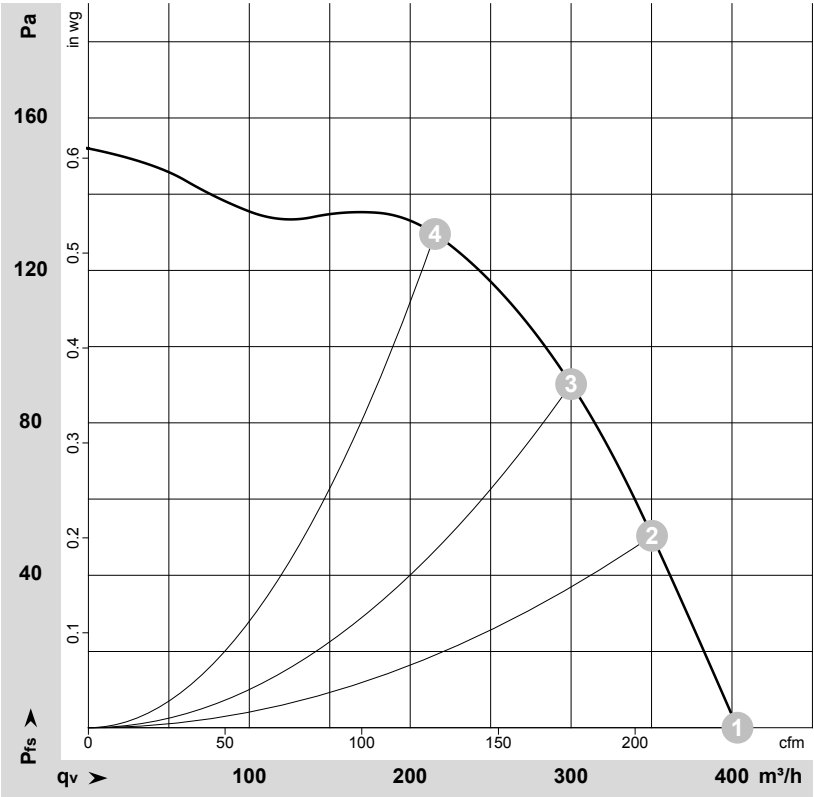
U1	blue	Z	brown	U2	black
PE	green/yellow				



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Charts: Air flow 50 Hz



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

Measurement: LU-176266-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	inH ₂ O
1	230	50	1310	55	0.24	405	0	235	0.00
2	230	50	1350	50	0.22	350	50	205	0.20
3	230	50	1380	47	0.21	300	90	175	0.36
4	230	50	1410	42	0.19	215	130	125	0.52

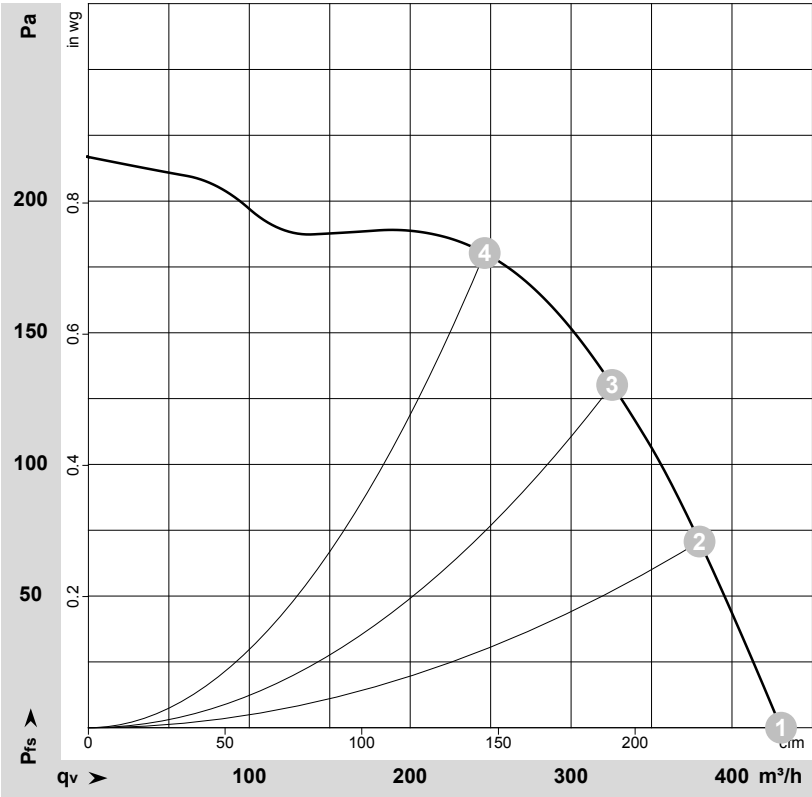
U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



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

Measurement: LU-176385-1

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	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	inH2O
1	230	60	1410	75	0.33	430	0	255	0.00
2	230	60	1510	70	0.30	380	70	225	0.28
3	230	60	1580	65	0.28	325	130	190	0.52
4	230	60	1645	58	0.26	245	180	145	0.72

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

