

R4E280-AN67-09 ebmpapst Datasheet

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## Nominal data

Type	R4E280-AN67-09	
Motor	M4E068-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ce
Valid for approval/standard		CE
Speed (rpm)	min <sup>-1</sup>	1090
Power consumption	W	88
Current draw	A	0.39
Capacitor	µF	3
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. back pressure	in. wg	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	45
Starting current	A	0.55

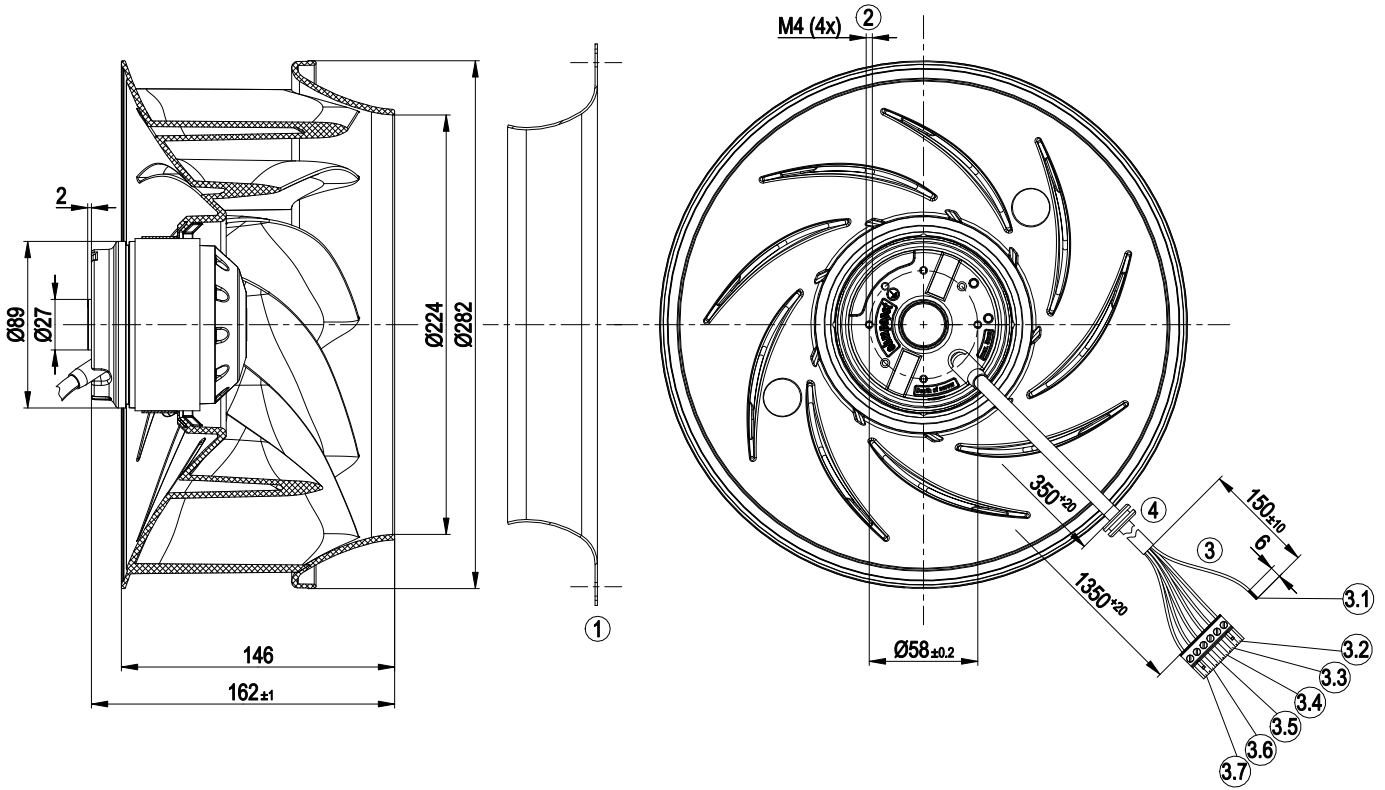
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
 Subject to change



## Technical description

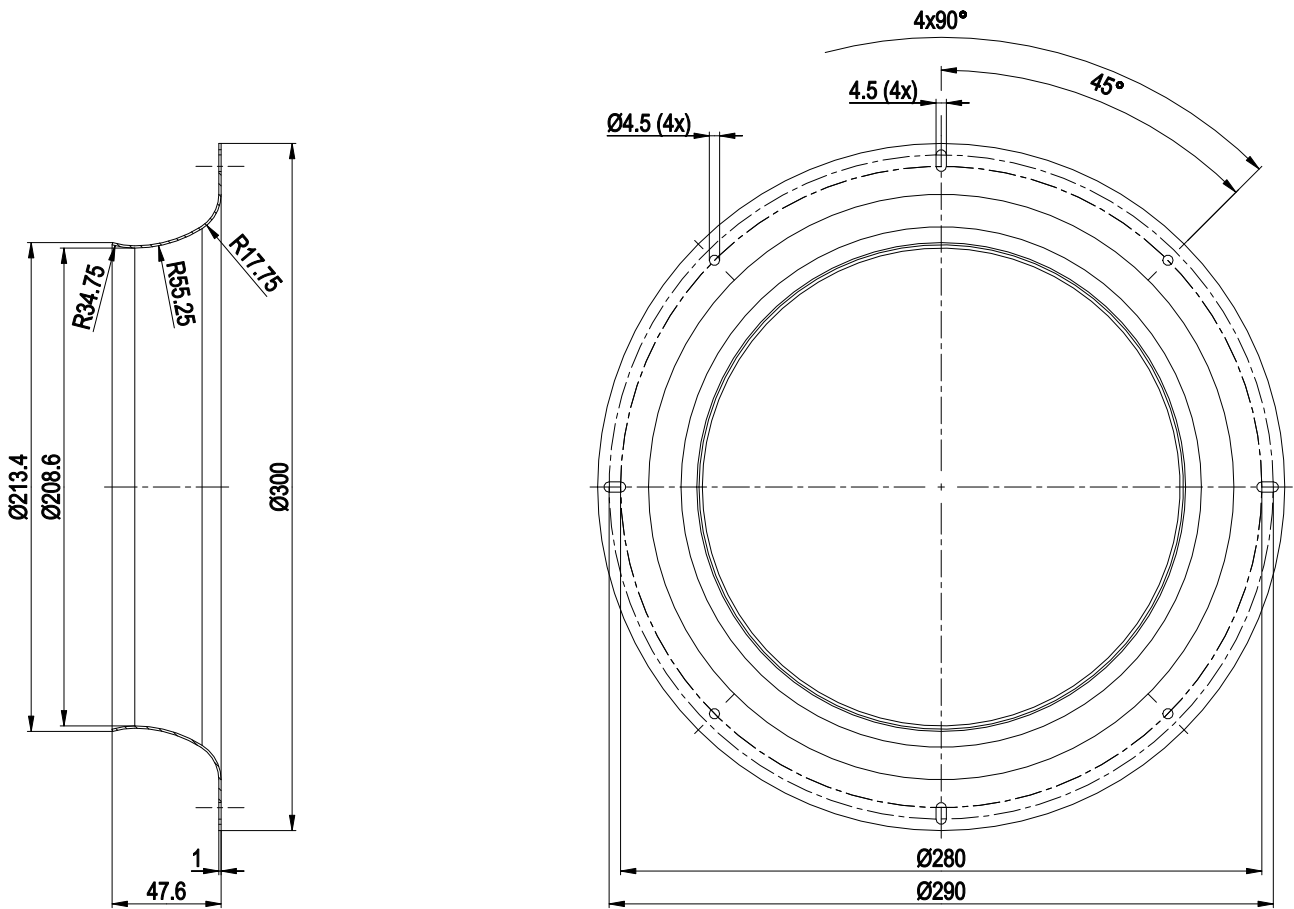
Weight	2.3 kg
Size	280 mm
Motor size	68
Rotor surface	Painted black
Impeller material	PA plastic
Number of blades	9
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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
Speed levels	3
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal switch auto reset, internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.

## Product drawing



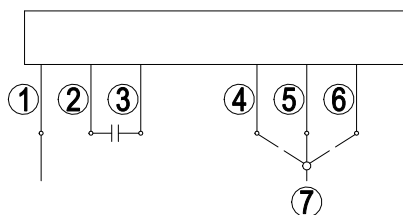
1	Accessory part: inlet ring 31050-2-4013 not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Cable PVC 7G 0.5 mm <sup>2</sup> , 1x 6-pole connector housing Phönix 1757051 (MSTB 2.5/6-ST/5.08), 1x crimped splices
3.1	green/yellow (PE)
3.2	red (capacitor)
3.3	white (step 1)
3.4	gray (step 2)
3.5	black (step 3)
3.6	blue (N)
3.7	orange (bridge)
4	Grommet 64901-4-7011 EPDM black

## Accessory part



Inlet ring 31050-2-4013

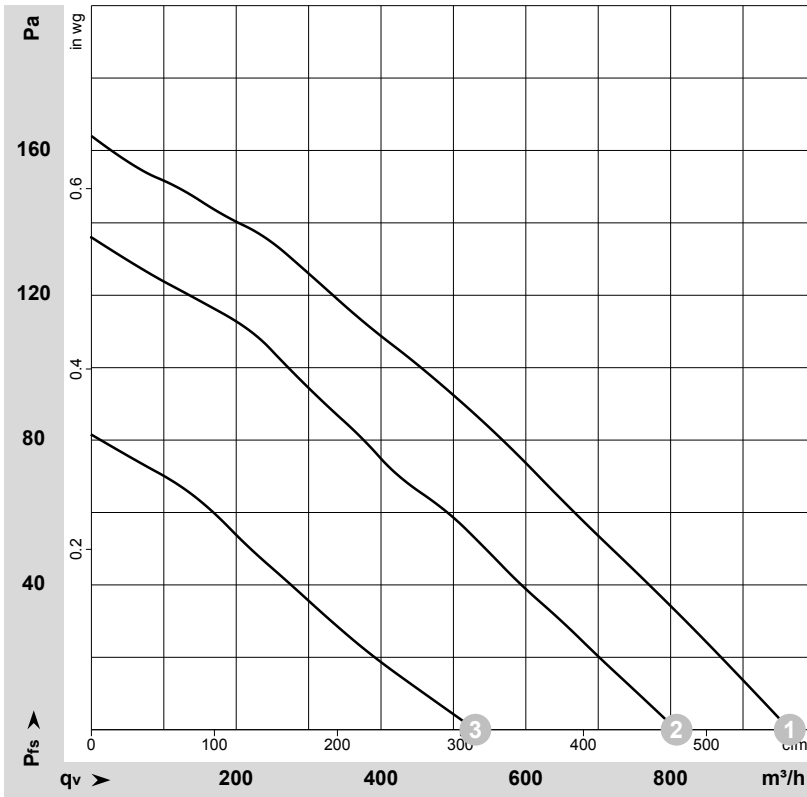
### Connection diagram



Note: High speed (step III); low speed (step I); the switch must interrupt the circuit on switching.

1	N = blue	2	orange	3	red
4	Step I white	5	Step II gray	6	Step III black
7	L1				

## Curves: Air performance 50 Hz



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

Measurement: LU-66162-1  
 Measurement: LU-66163-1  
 Measurement: LU-66164-1

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

	Stage	U	f	n	P <sub>e</sub>	I	LpA <sub>in</sub>	q <sub>v</sub>	q <sub>v</sub>	P <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	dB(A)	m <sup>3</sup> /h	cfm	in. wg
1	3	230	50	1090	88	0.39	50	965	570	0.00
2	2	230	50	930	74	0.33	46	805	475	0.00
3	1	230	50	630	55	0.26	35	530	310	0.00

U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · q<sub>v</sub> = Air flow

