

R4E280-AM19-12 ebmpapst Datasheet

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Nominal data

Type	R4E280-AM19-12	
Motor	M4E068-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		cu
Valid for approval / standard		CE
Speed (rpm)	min ⁻¹	850
Power input	W	50
Current draw	A	0.22
Motor capacitor	μF	1.5
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60
Starting current	A	0.25

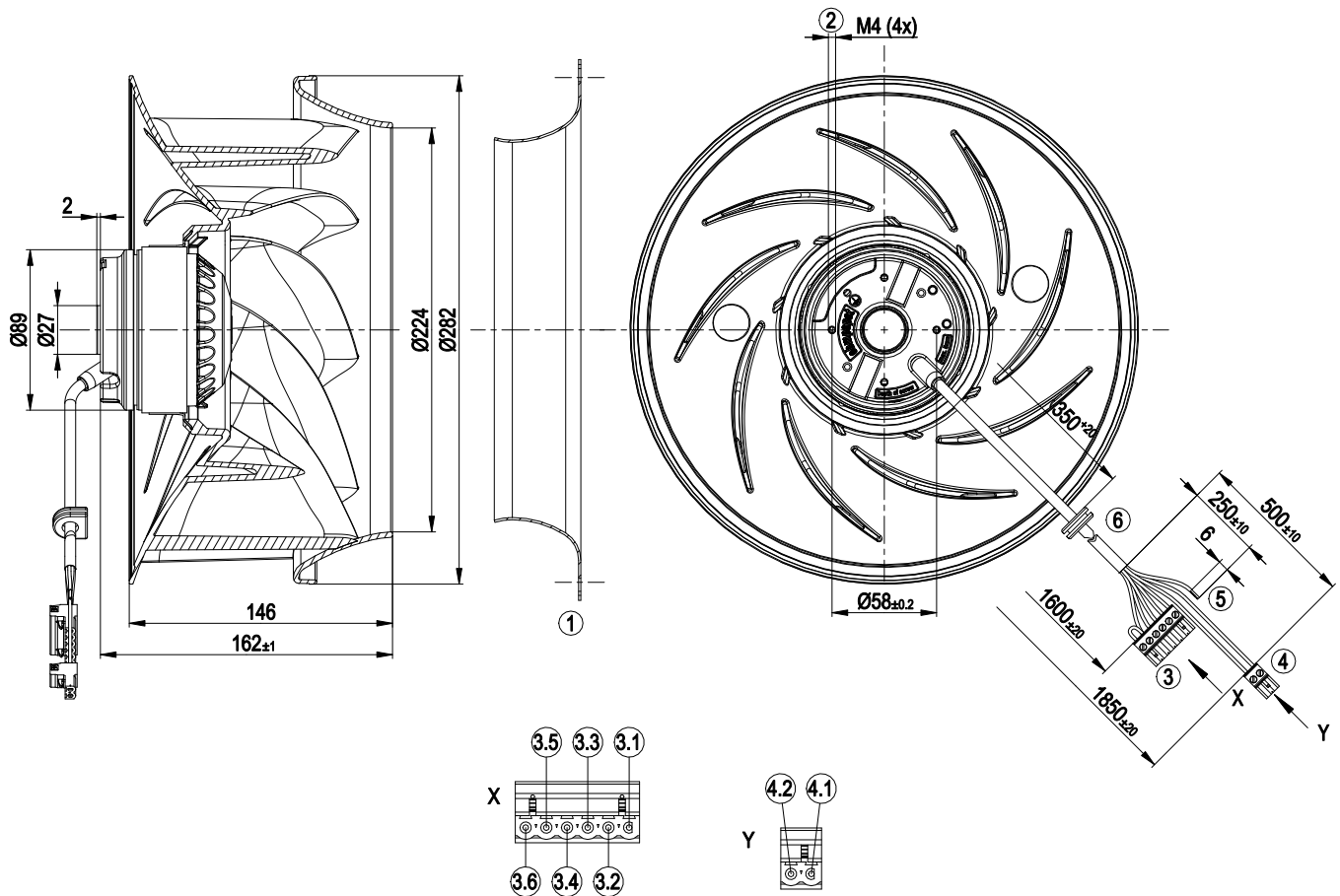
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



Technical features

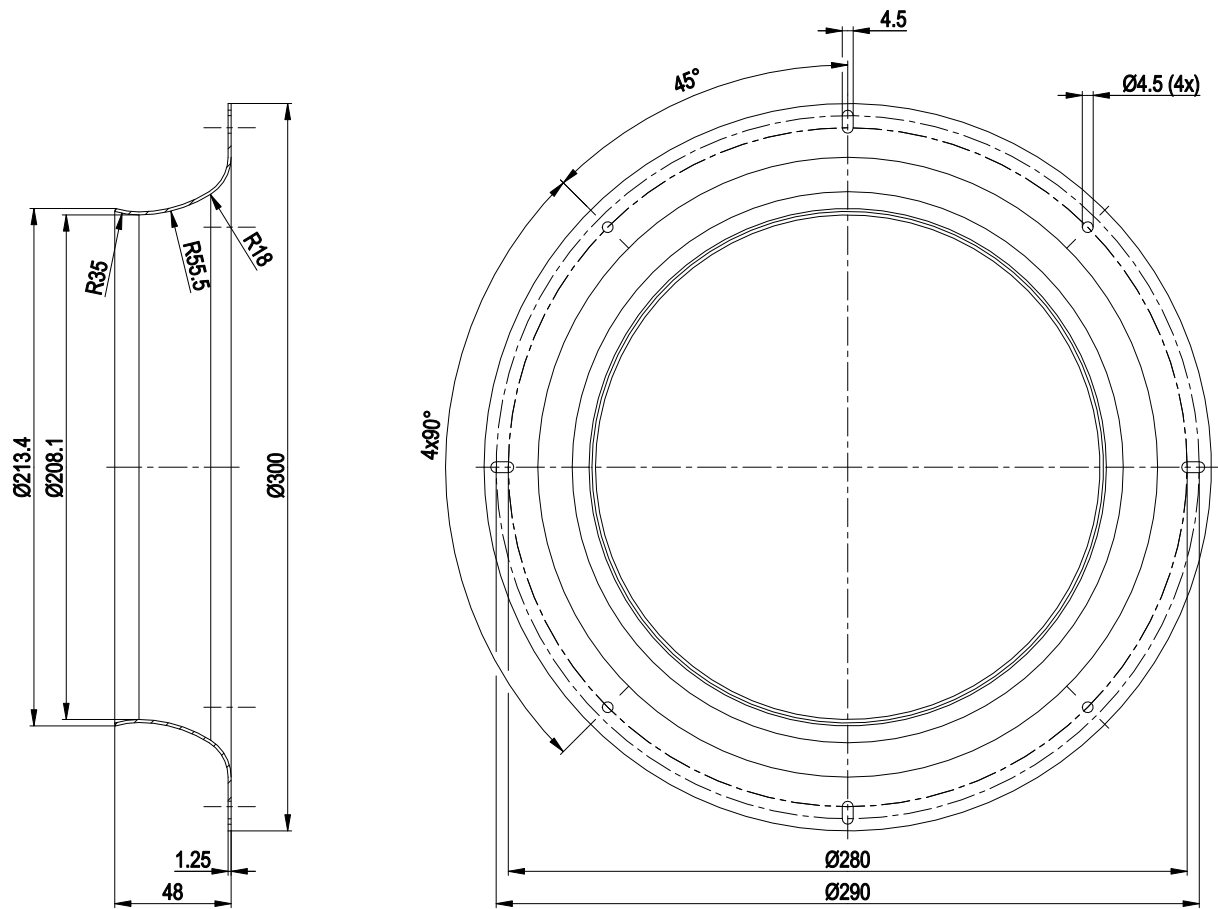
Mass	2.3 kg
Size	280 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Number of blades	9
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H0+
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
Speed steps	3
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

Product drawing



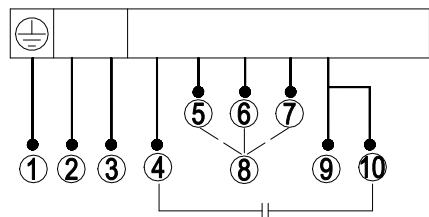
1	Accessory part: Inlet nozzle 31050-2-4013 not included in scope of delivery
2	Thread reach max. 5 mm
3	Connection line ETFE AWG20, 1x connector housing Phönix 6-pin 1757051 (MSTB 2.5/6-ST/5.08)
3.1	Red (capacitor)
3.2	white (level 1)
3.3	grey (level 2)
3.4	black (level 3)
3.5	blue (N)
3.6	orange (bridge)
4	Connection line ETFE AWG20, 1x connector housing Phönix 2-pin 1757019 (MSTB 2.5/2-ST/5.08)
4.1	yellow (TW)
4.2	yellow (TW)
5	Connection line ETFE AWG20, 1x lead tip (green/yellow) crimped
6	Grommet 64901-4-7011 EPDM black

Accessory part



Inlet nozzle 31050-2-4013 not included in scope of delivery

Connection screen

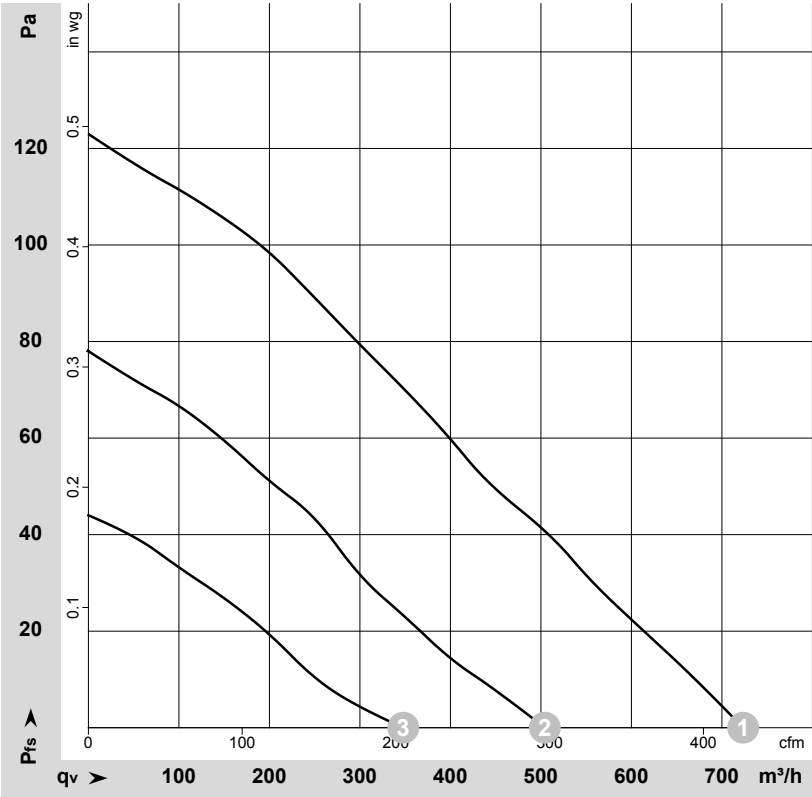


Note: Fast speed (step III); slow speed (step I)

1	PE (green/yellow)	2	TW (yellow)	3	TW (yellow)
4	Capacitor (red)	5	L= Level 1 (white)	6	L= Level 2 (grey)
7	L= Level 3 (black)	8	L1	9	N (blue)
10	Capacitor (orange)				



Charts: Air flow 50 Hz



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

Measurement: LU-65843-1
Measurement: LU-65844-1
Measurement: LU-65845-1

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

	Stage	U	f	n	P _e	I	LpA _{in}	q _v	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	m ³ /h	cfm	inH2O
1	3	230	50	850	50	0.22	44	725	425	0.00
2	2	230	50	610	37	0.17	34	505	295	0.00
3	1	230	50	450	29	0.14	28	350	205	0.00

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · q_v = Air flow

