

AC axial fan - HyBlade®

sickled blades (S series), single inlet

Wall ring with air-guiding system

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Nominal data

Type	W4E350-WN02-30	
Motor	M4E074-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed	min ⁻¹	1340
Power input	W	165
Current draw	A	0.73
Motor capacitor	µF	4
Capacitor voltage	VDB	400
Capacitor standard		P0 (CE)
Max. back pressure	Pa	90
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	45
Starting current	A	1.4

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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	29	24.6	28.6
Efficiency grade N		40.4	36	40
Power input P_e	kW	0.16		
Air flow q_v	m³/h	2160		
Pressure increase p_{fs}	Pa	75		
Speed n	min ⁻¹	1355		

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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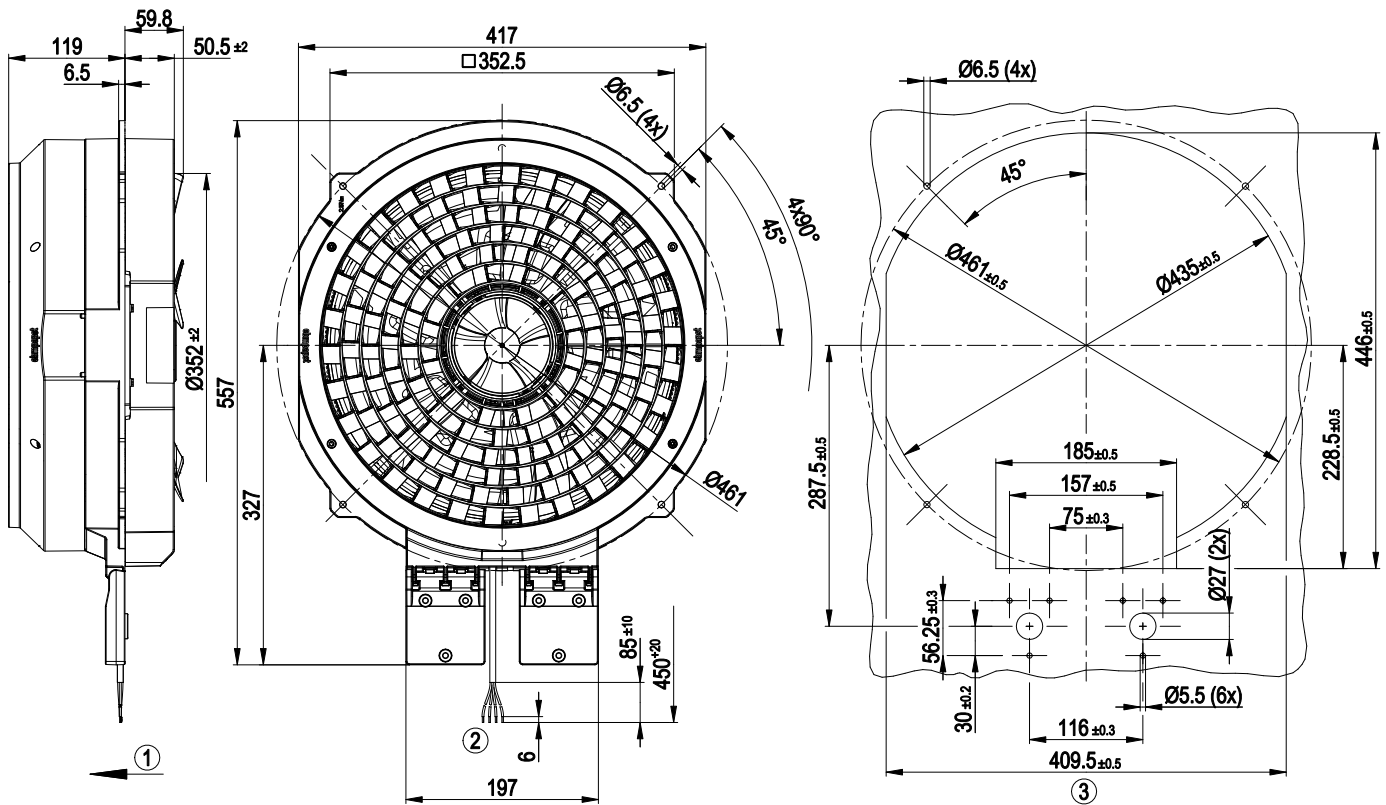
Wall ring with air-guiding system

Technical features

Mass	6.3 kg
Size	350 mm
Surface of rotor	Coated in black
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of wall ring	PP plastic
Number of blades	5
Direction of air flow	"V"
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 class	F1-2
Max. permissible ambient motor temp. (transp./ storage)	+ 70 °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) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

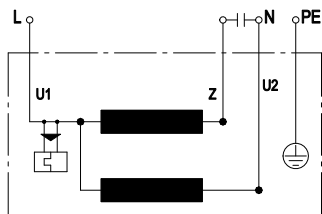


Product drawing



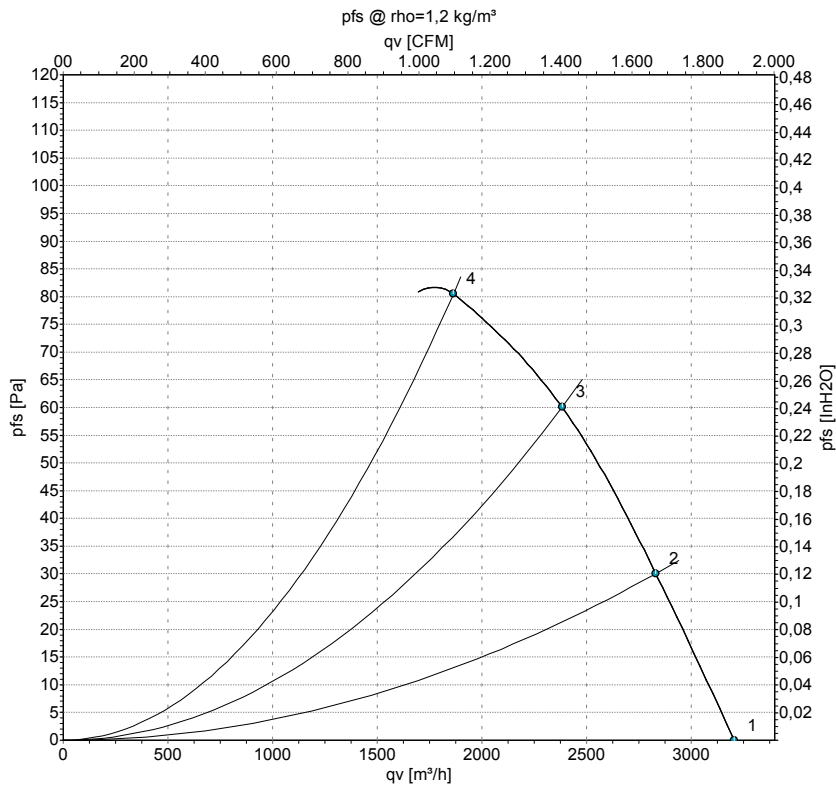
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|---|--|
| 1 | Direction of air flow "V" |
| 2 | Connection line PVC 4G 0.5 mm², 4x lead tips crimped |
| 3 | Mounting dimensions |

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

Charts: Air flow 50 Hz



Measurement: LU-156168

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	$L_{pA_{in}}$	$L_{wA_{in}}$	q_v	p_{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	230	50	1400	127	0.57	61	67	3205	0
2	230	50	1385	137	0.61	59	66	2830	30
3	230	50	1365	146	0.64	56	63	2385	60
4	230	50	1340	165	0.73	56	63	1865	80

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · $L_{pA_{in}}$ = Sound pressure level inlet side · $L_{wA_{in}}$ = Sound power level inlet side · q_v = Air flow
 p_{fs} = Pressure increase