

W2D250-CH14-15

AC axial fan

sickled blades (S series)

Wall ring with guard grille



ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

sales@fansco.com

www.fansco.com

Limited partnership · Headquarters Mulfingen

County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142

Nominal data

Type	W2D250-CH14-15		
Motor	M2D068-CC		
Phase		3~	3~
Nominal voltage	VAC	460	460
Connection		Y	Y
Frequency	Hz	60	60
Type of data definition		fa	fa
Valid for approval / standard		CE	UL 2111
Speed	min ⁻¹	2750	2750
Power input	W	160	180
Current draw	A	0.23	0.24
Max. back pressure	Pa	120	120
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	60

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



AC axial fan

sickled blades (S series)

Wall ring with guard grille

Technical features

Mass	3.1 kg
Size	250 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	7
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	"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
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CSA C22.2 Nr.100; UL 1004-1

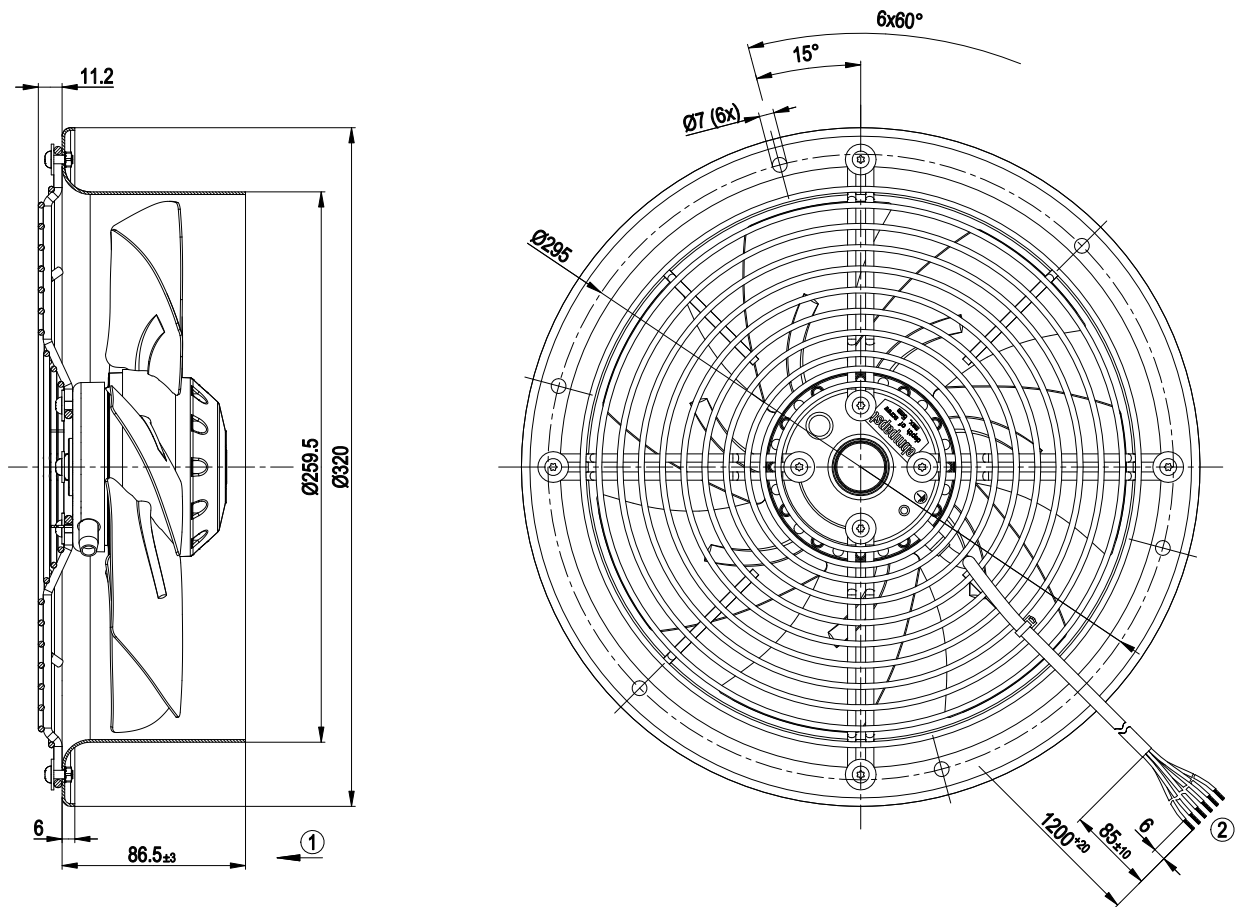


AC axial fan

sickled blades (S series)

Wall ring with guard grille

Product drawing

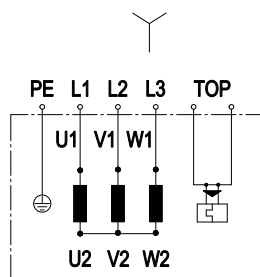


- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Connection line PFA AWG20, 4 x brass lead tips crimped |

AC axial fan

sickled blades (S series)
Wall ring with guard grille

Connection screen



Note: Direction of rotation changes when two phases are reversed

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

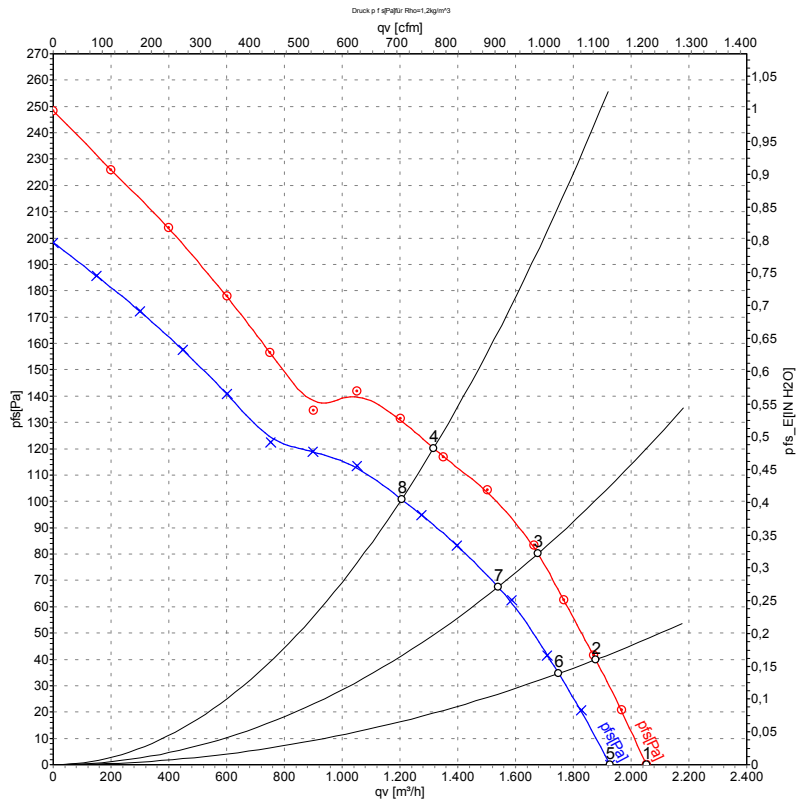


AC axial fan

sickled blades (S series)

Wall ring with guard grille

Charts: Air flow 60 Hz Y



Measurement: LU-76489
Measurement: LU-76488

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

	Conn.	U	f	n	P _e	I	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	Y	460	60	2750	160	0.23	2055	0
2	Y	460	60	2690	165	0.24	1875	40
3	Y	460	60	2600	177	0.25	1675	80
4	Y	460	60	2515	187	0.26	1315	120
5	Y	400	60	2580	140	0.22	1925	0
6	Y	400	60	2500	145	0.23	1750	35
7	Y	400	60	2405	154	0.24	1540	68
8	Y	400	60	2310	161	0.26	1205	100

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

