S2D300-AP02-36

AC axial fan

sickled blades (S series), single inlet

with guard grille for short nozzle

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**S2D300-AP02-36**	
Motor	**M2D074-DF**	
Phase		3~
Nominal voltage	VAC	415
Connection		Y
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min^{-1}	2650
Power input	W	190
Current draw	A	0.33
Max. back pressure	Pa	140
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	85
Starting current	A	1.12

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 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	29.9	25.9	29.9
Efficiency grade N		40	36	40
Power input P_e	kW	0.25		
Air flow q_v	m^3/h	2210		
Pressure increase p_{fs}	Pa	125		
Speed n	min^{-1}	2455		

Data definition with optimum efficiency. LU-62732
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

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Technical features

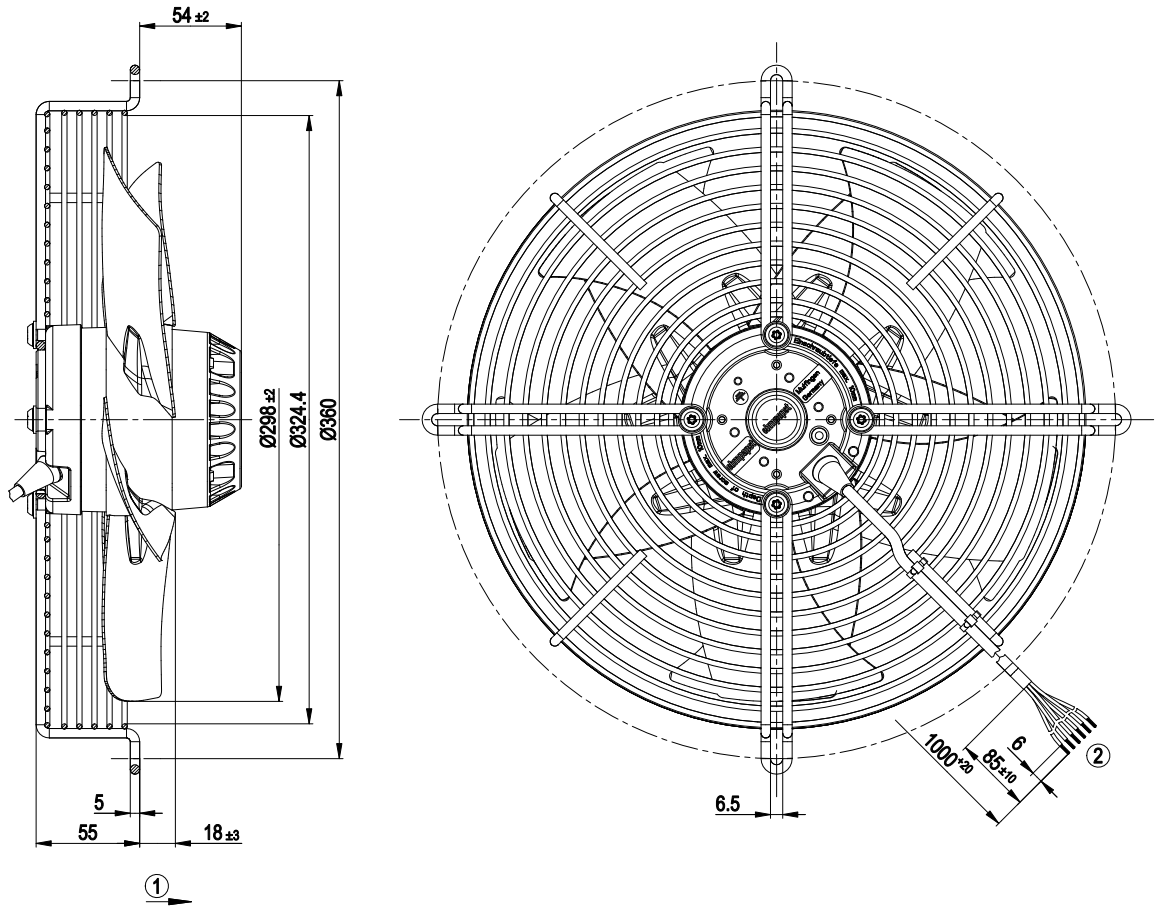
Mass	3.9 kg
Size	300 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity class	F2-2
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	Thermal overload protector (TOP) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

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Product drawing



1	Direction of air flow "A"
2	Connection line XLPE / XLPO 6G 0.5 mm², 6x lead tips crimped

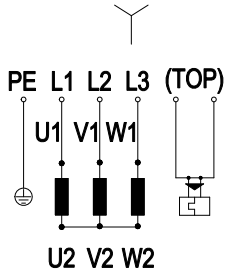
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Connection screen



L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
PE	green/yellow	TOP	2 x grey	Y	Star connection

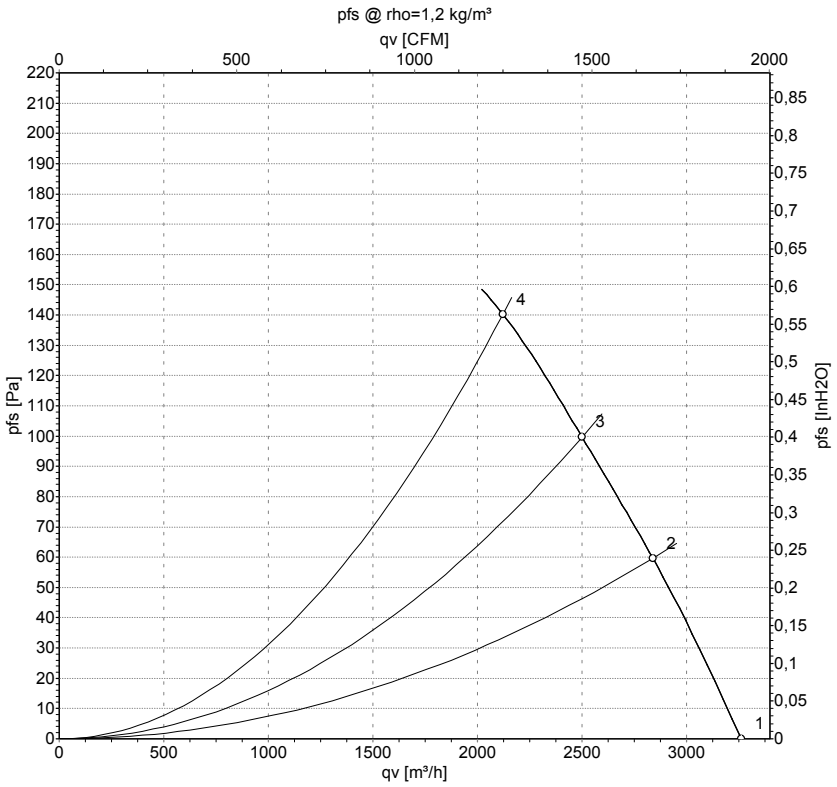
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Charts: Air flow 50 Hz



Measurement: LU-141644

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	m^3/h	Pa
1	Y	415	50	2650	190	0.33	3265	0
2	Y	415	50	2580	221	0.38	2840	60
3	Y	415	50	2540	236	0.40	2500	100
4	Y	415	50	2510	249	0.41	2120	140

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

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