S4D350-AP08-75

AC axial fan

sickled blades (S series)

with guard grille for short nozzle

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**S4D350-AP08-75**
Motor	**M4D074-DF**

Phase		3~	3~	3~
Nominal voltage	VAC	400	400	460
Connection		Y	Y	Y
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	CE
Speed	min^{-1}	1410	1600	1670
Power input	W	130	180	185
Current draw	A	0.35	0.34	0.35
Max. back pressure	Pa	90	90	130
Max. ambient temperature	°C	50	40	25
Starting current	A	1.1	1.05	1.35

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}		30.7	24.5	28.5
Efficiency grade N		42.2	36	40
Power input P_e	kW	0.15		
Air flow q_v	m^3/h	2110		
Pressure increase p_{fs}	Pa	80		
Speed n	min^{-1}	1385		

Data established at point of optimum efficiency

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Technical features

Mass	5.2 kg
Size	350 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
Material of guard grille	Steel, phosphated and coated in black 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	F2-2
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
Electrical leads	Via terminal box
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

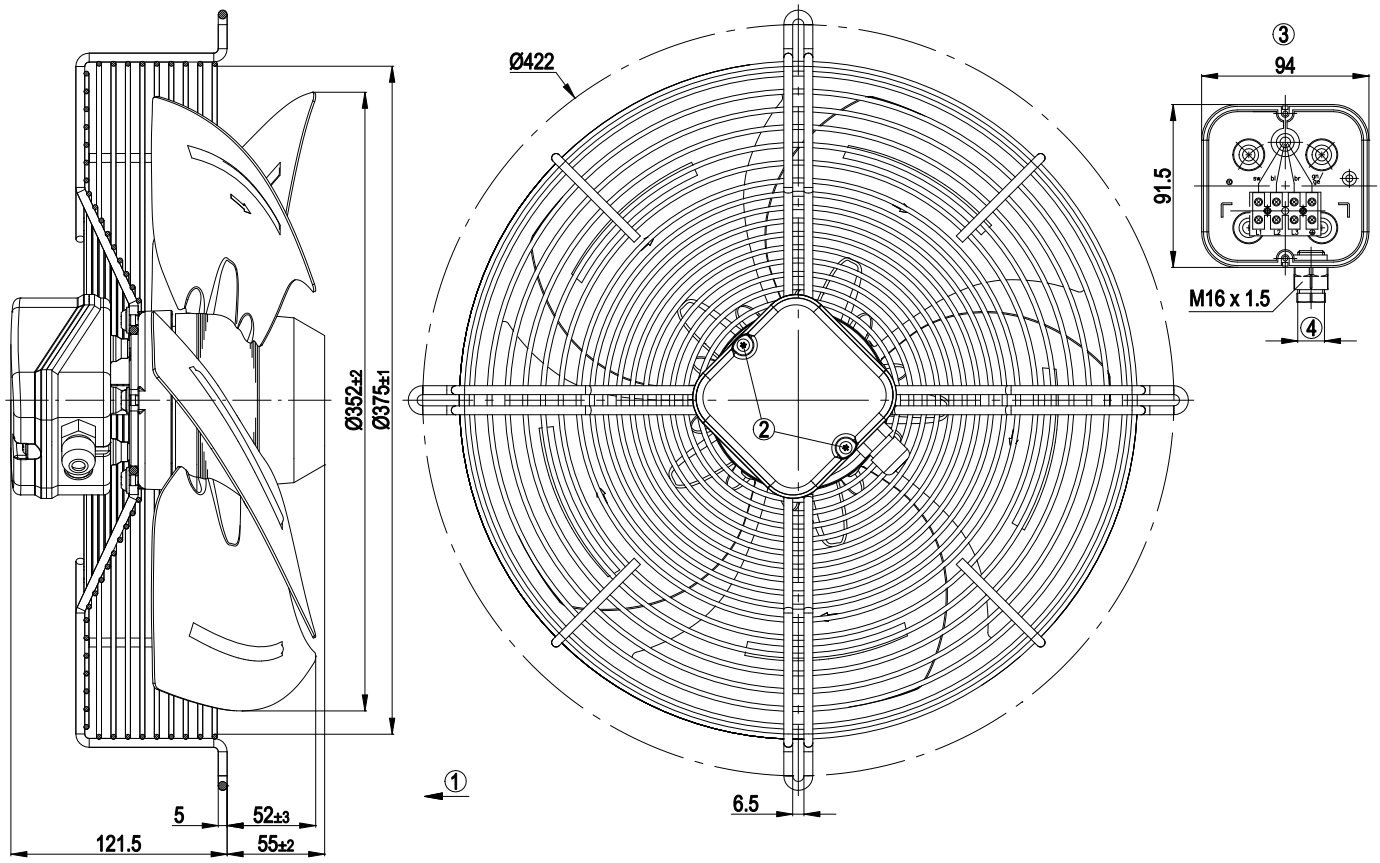
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Product drawing



1	Direction of air flow "V"
2	Tightening torque 0.7±0.2 Nm
3	Illustration without terminal box cover
4	Cable diameter: max. 7.5 mm, tightening torque 1.3 ±0.2 Nm

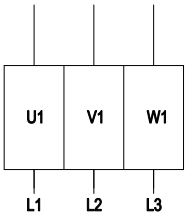
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Connection screen



Changing the direction of rotation by reversing 2 phases

1	Three-phase motor, star connection
U1	= L1 = black
V1	= L2 = blue
W1	= L3 = brown

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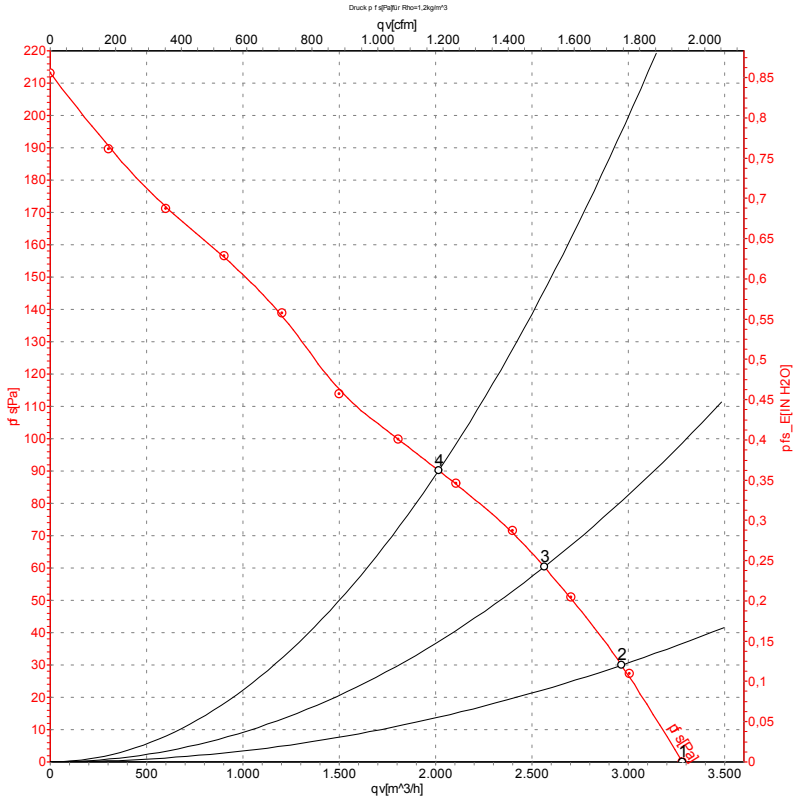
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Charts: Air flow 50 Hz



Measurement: LU-122615

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	400	50	1410	130	0.35	3280	0
2	Y	400	50	1395	145	0.35	2965	30
3	Y	400	50	1380	158	0.36	2565	60
4	Y	400	50	1355	179	0.38	2015	90

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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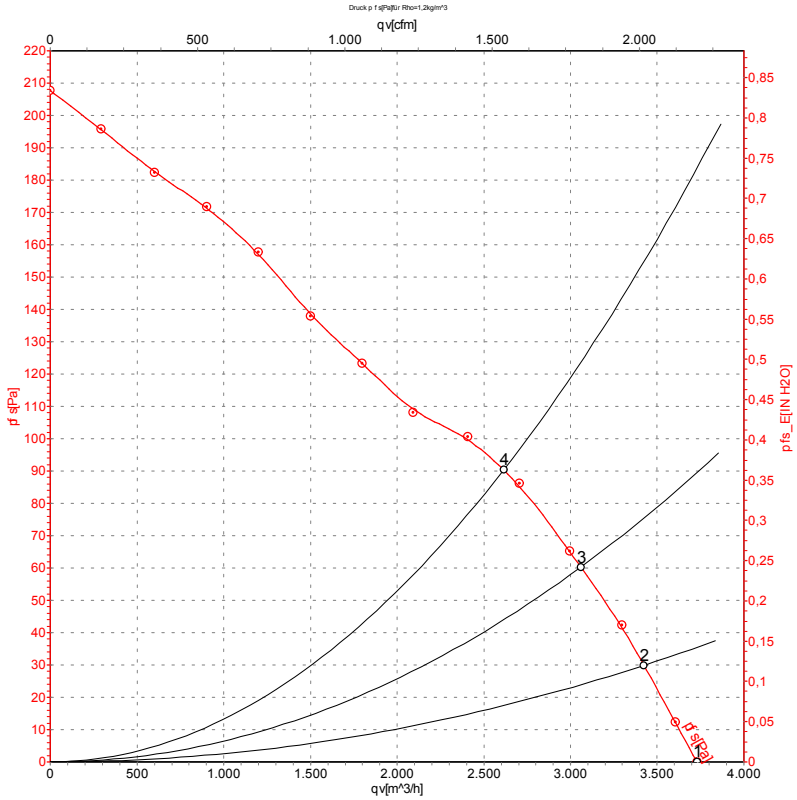
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Charts: Air flow 60 Hz



Measurement: LU-122616

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	400	60	1600	180	0.34	3730	0
2	Y	400	60	1585	196	0.35	3425	30
3	Y	400	60	1555	214	0.37	3060	60
4	Y	400	60	1525	232	0.40	2615	90

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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