S4D300-EC28-08

AC axial fan

sickle-shaped blades (S series), single-intake

with guard grille

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Nominal data

Type	**S4D300-EC28-08**
Motor	**M4D068-DF**

Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	460
Wiring			Δ	Y	Y
Frequency	Hz	50	50	60	60
Method of obtaining data		fa	fa	fa	fa
Valid for approval/standard		CE	CE	CE	CE
Speed (rpm)	min^{-1}	1390	1390	1570	1630
Power consumption	W	73	70	95	105
Current draw	A	0.36	0.33	0.19	0.2
Capacitor	µF	5			
Capacitor voltage	VDB	250			
Max. back pressure	Pa	40	40	50	55
Max. back pressure	inH2O	0.16	0.16	0.2	0.22
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	65	65	65	65

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

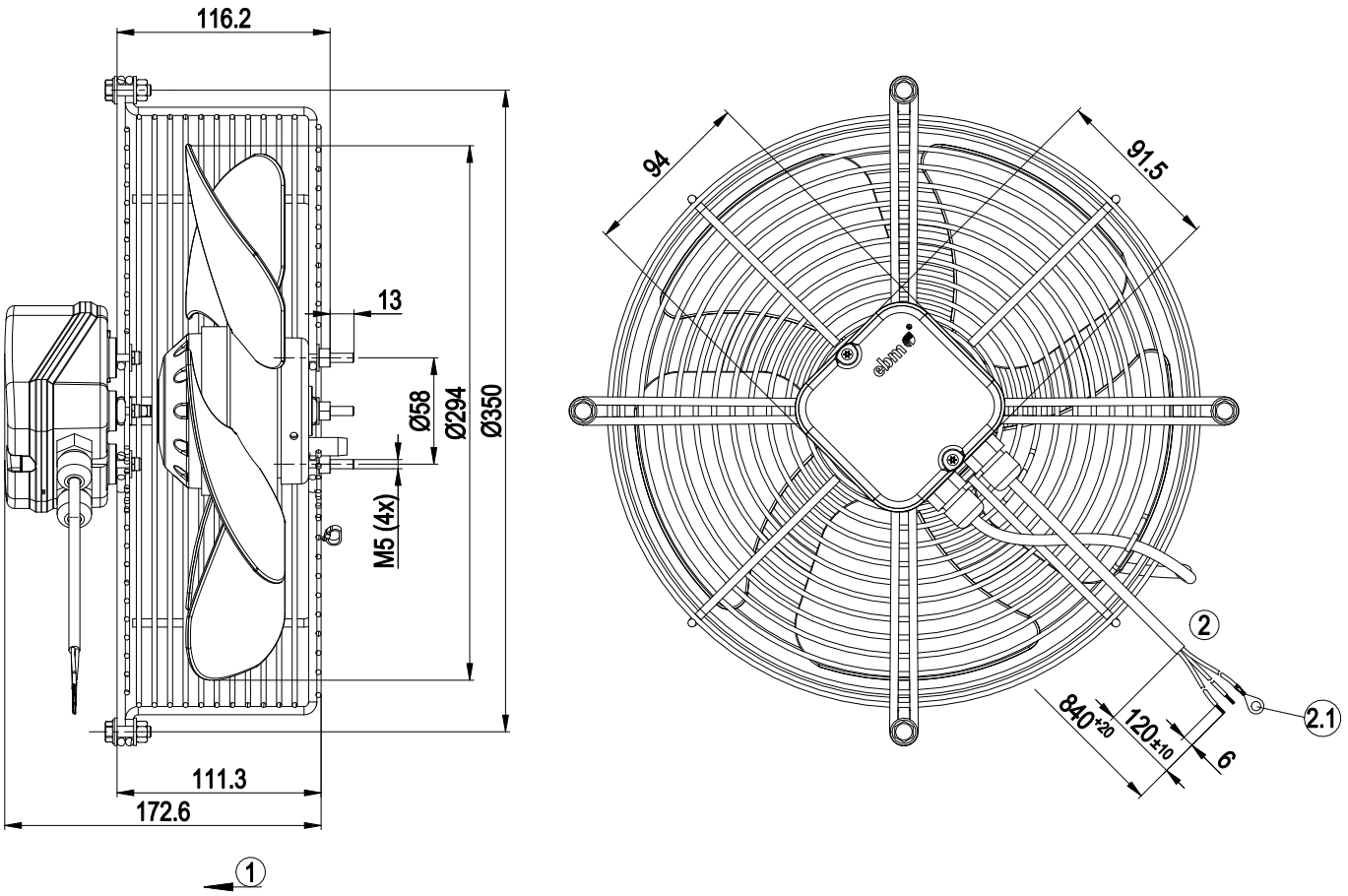
Weight	3.6 kg
Fan size	300 mm
Rotor surface	Painted black
Impeller material	PA plastic
Guard grille material	Steel, phosphated and coated with black plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F2-2
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Via terminal box, capacitor integrated and connected
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1

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Product drawing



1	Airflow direction "V"
2	Cable PVC 3G 0.5 mm², 2x wire-end splice, 1x ring terminal Ø5.2 crimped
2.1	PE (green/yellow)
2.2	L (brown)
2.3	N (blue)

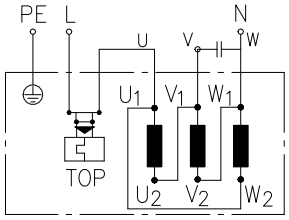
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Connection diagram



L	= U1 = brown	U2	red	N	= V1 = blue
V2	gray	W1	black	W2	orange
TOP	white	PE	green/yellow		

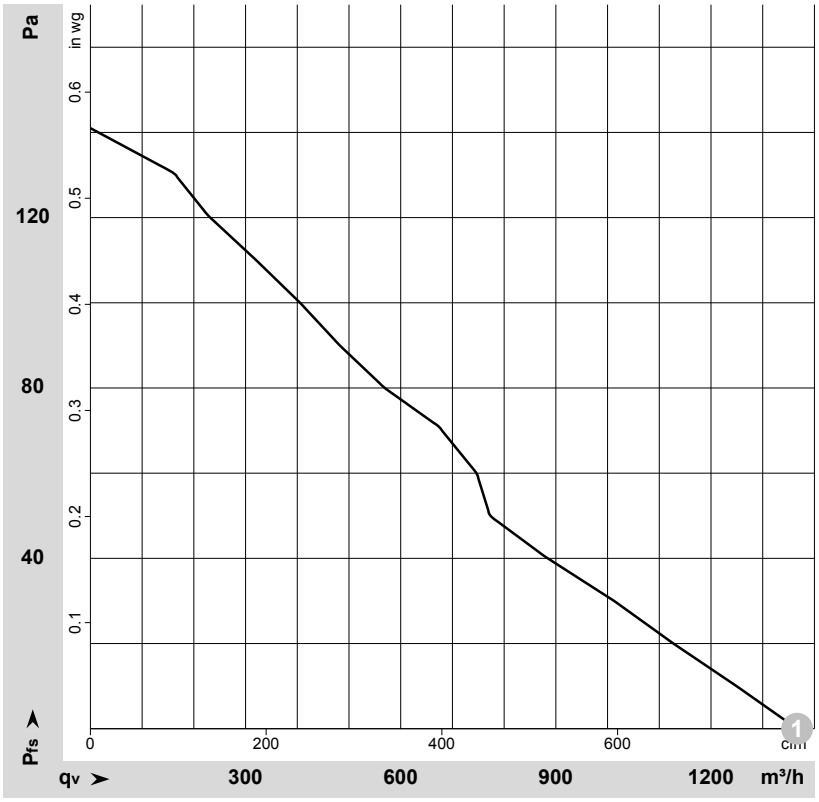
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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-48663-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P_e	I	q_V	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	cfm	inH2O
1	Δ	230	50	1390	70	0.33	1365	805	0.00

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow

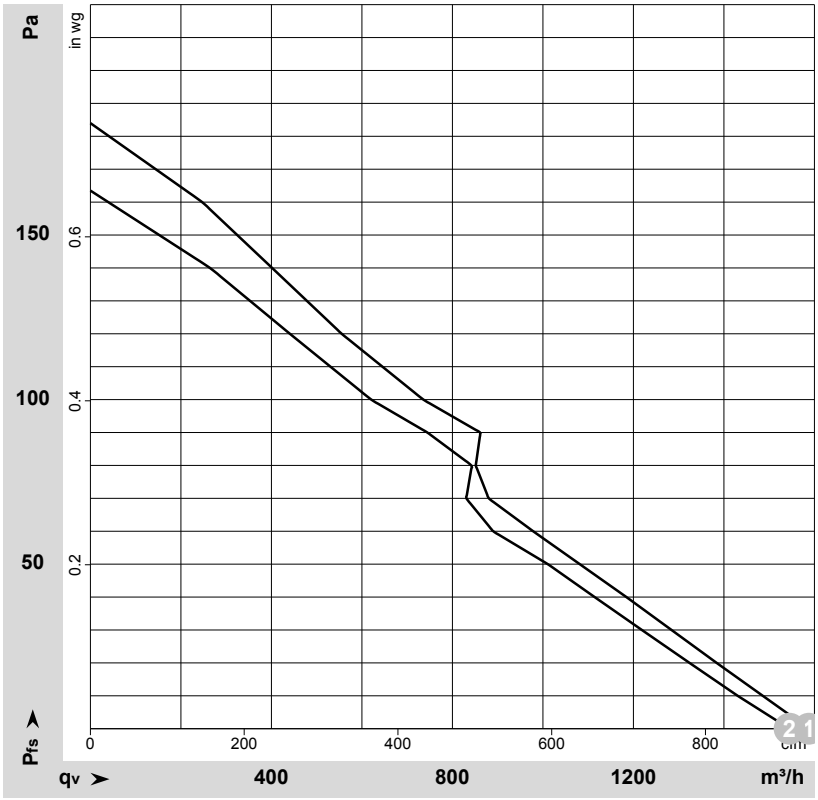
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AC axial fan

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Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-48666-1
Measurement: LU-48665-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P_e	I	q_V	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	cfm	inH2O
1	460	60	1630	105	0.20	1590	935	0.00
2	400	60	1570	95	0.19	1545	910	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow

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