S4D300-AA16-10

AC axial fan

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

with guard grille for short nozzle

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Nominal data

Type	**S4D300-AA16-10**
Motor	**M4D068-DF**

Phase		3~	1~	3~	3~	3~
Nominal voltage	VAC	230	230	230	400	400
Wiring		Δ	Δ	Δ	Y	Y
Frequency	Hz	50	50	60	50	60
Method of obtaining data		ce	ce	ce	ce	ce
Valid for approval/standard		-	-	-	-	-
Speed (rpm)	min^{-1}	1370	1370	1550	1370	1550
Power consumption	W	80	80	110	80	110
Current draw	A	0.33	0.36	0.37	0.19	0.21
Capacitor	µF		5			
Capacitor voltage	VDB		400			
Min. ambient temperature	°C	-25	-25	-25	-25	-25
Max. ambient temperature	°C	55	55	55	55	55

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

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Technical description

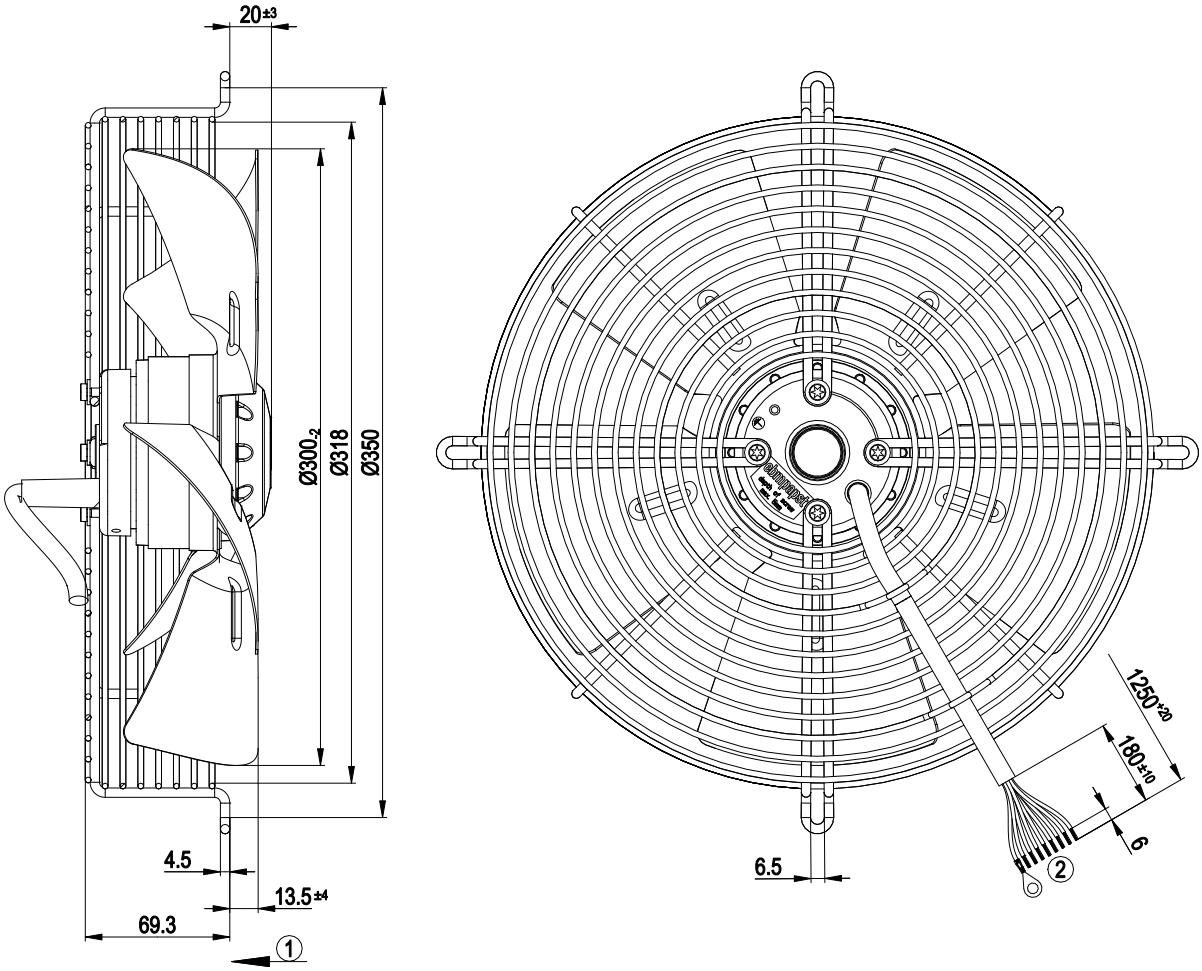
Weight	3 kg
Fan size	300 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54; installation- and position-dependent
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	Shaft horizontal or rotor on bottom; rotor on top on request
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
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1

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Product drawing



1	Direction of air flow "V"
2	Cable PVC 9G 0.5 mm², heat-stabilized, 8x crimped splices, 1x ring terminal Ø 5.2

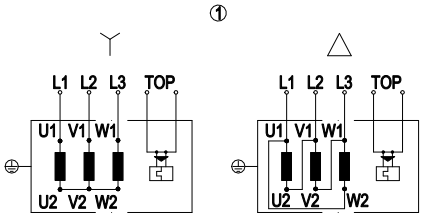
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Connection diagram



1	Three-phase motor	Y	Star connection	Δ	Delta connection
L1	= U1 = brown	L2	= V1 = blue	L3	= W1 = black
V2	gray	U2	red	W2	orange
TOP	2x white				

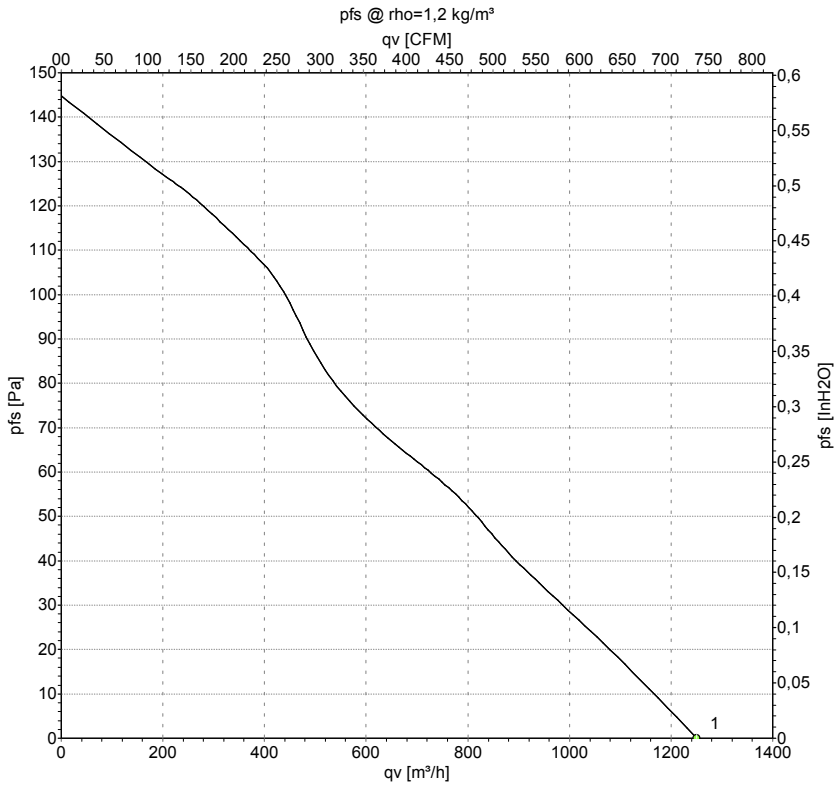
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Curves: Air performance 50 Hz Δ



Measurement: LU-17310-1

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	qv	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	CFM	inH2O
1	Δ	230	50	1370	80	0.36	1250	735	0.00

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

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