

8300101746
VMA0350CSNJS

EC axial panel fan - AxiEco

sickle-shaped blades (S series)
with guard grille for short nozzle

www.fansco.com
sales@fansco.com

Nominal data

Item	8300101746	
Motor	E07434-43	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Status		prelim.
Speed (rpm)	min ⁻¹	1750
Power consumption	W	270
Current draw	A	1.2
Max. back pressure	Pa	215
Max. back pressure	in. wg	0.86
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

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

Data according to Commission Regulation (EU) 327/2011 (prEN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	43.8	30.1	09 Power consumption P_{ed}	kW	0.27
02 Measurement category		A		09 Air flow q_v	m ³ /h	2420
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	160
04 Efficiency grade N		53.7	40	10 Speed (rpm) n	min ⁻¹	1795
05 Variable speed drive		Yes		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

* Specific ratio = $1 + p_g / 100\,000\text{ Pa}$

LU-233780

The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings).
The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again.
The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).

8300101746

VMA0350CSNJS

EC axial panel fan - AxiEco

sickle-shaped blades (S series)

with guard grille for short nozzle

Technical description

Size	350 mm
Motor size	74
Rotor surface	Galvanized
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic, galvanized sheet-metal plate
Number of blades	5
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1 = Moist – occasional or constantly high level of humidity
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, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Locked-rotor detection - Speed control - Alarm relay - Power limiter - Motor current limitation - PFC, active - Soft start - Control interface with SELV potential safely disconnected from the mains - Temperature derating - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
Power Factor Correction (PFC)	Active
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Variable
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; CE; UKCA

8300101746

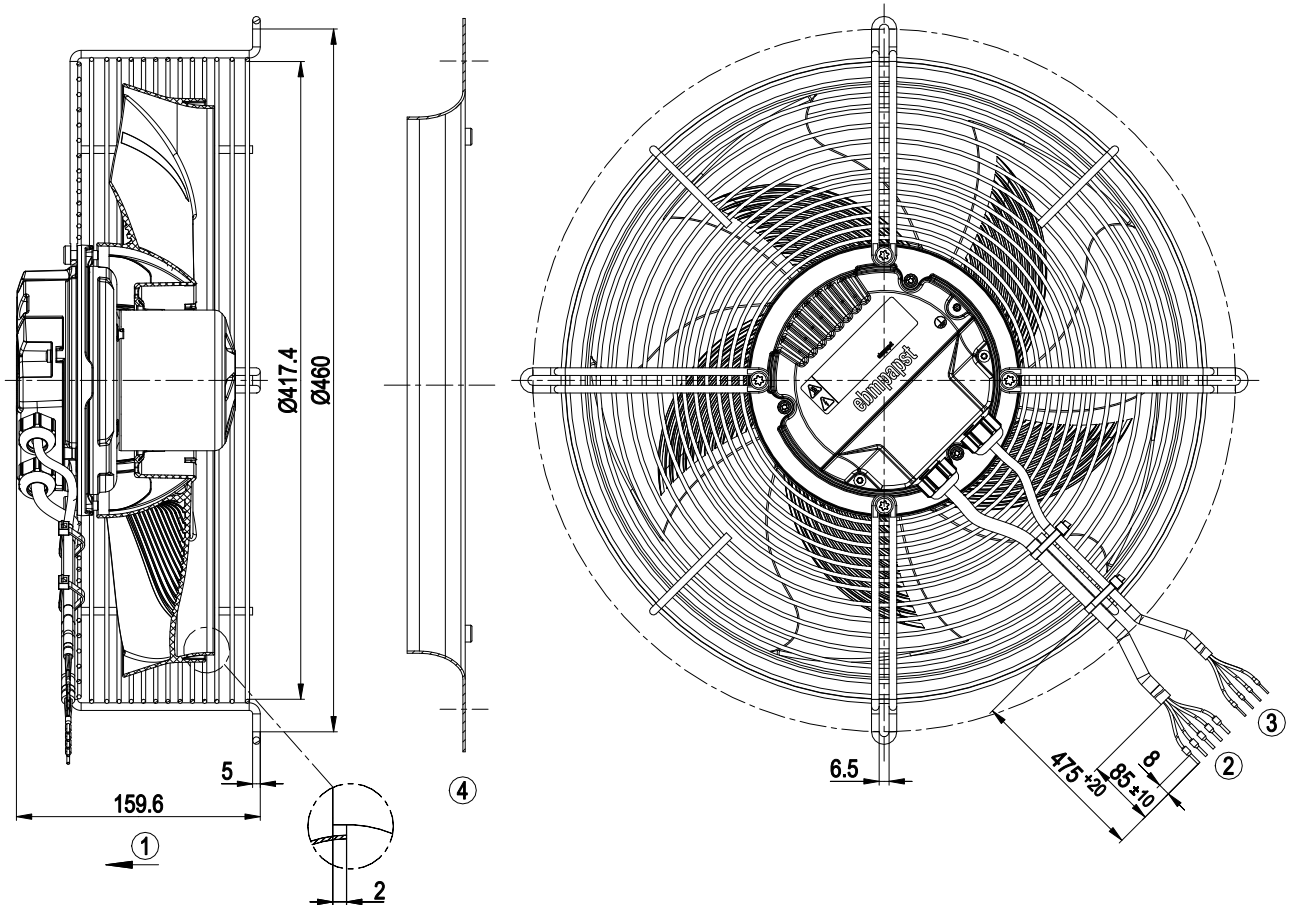
VMA0350CSNJS

EC axial panel fan - AxiEco

sickle-shaped blades (S series)

with guard grille for short nozzle

Product drawing



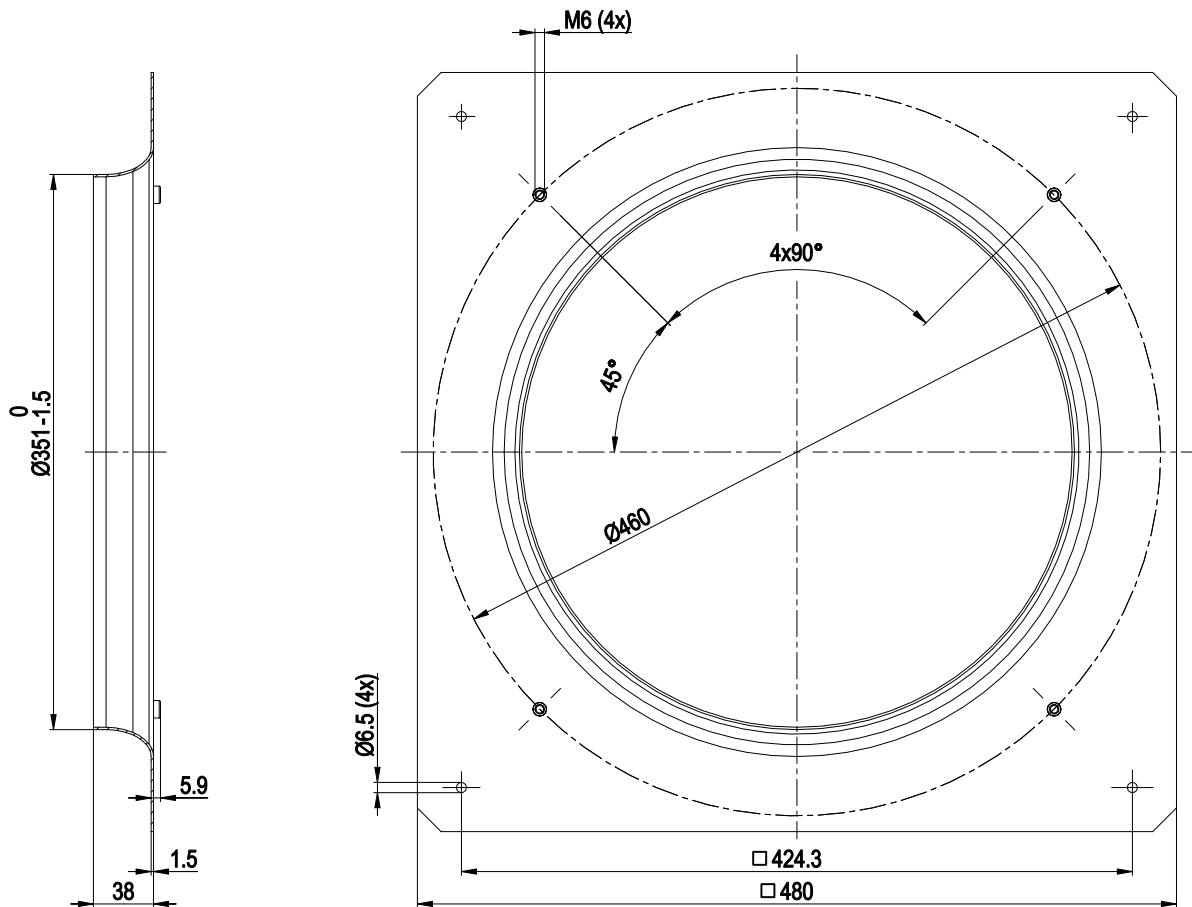
1	Airflow direction "V"
2	Supply line (PWR) PVC AWG18 5x wire-end ferrule
3	Control wire (CTRL) PVC AWG22 4x wire-end ferrule
4	Accessory part: Inlet ring 35100-2-4013 not included in scope of delivery

8300101746
VMA0350CSNJS

EC axial panel fan - AxiEco

sickle-shaped blades (S series)
with guard grille for short nozzle

Accessory part



Inlet ring 35100-2-4013

8300101746

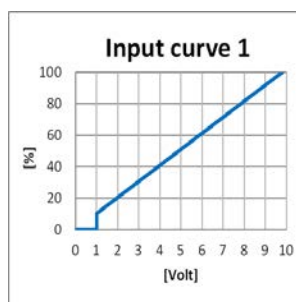
VMA0350CSNJS

EC axial panel fan - AxiEco

sickle-shaped blades (S series)

with guard grille for short nozzle

Connection diagram



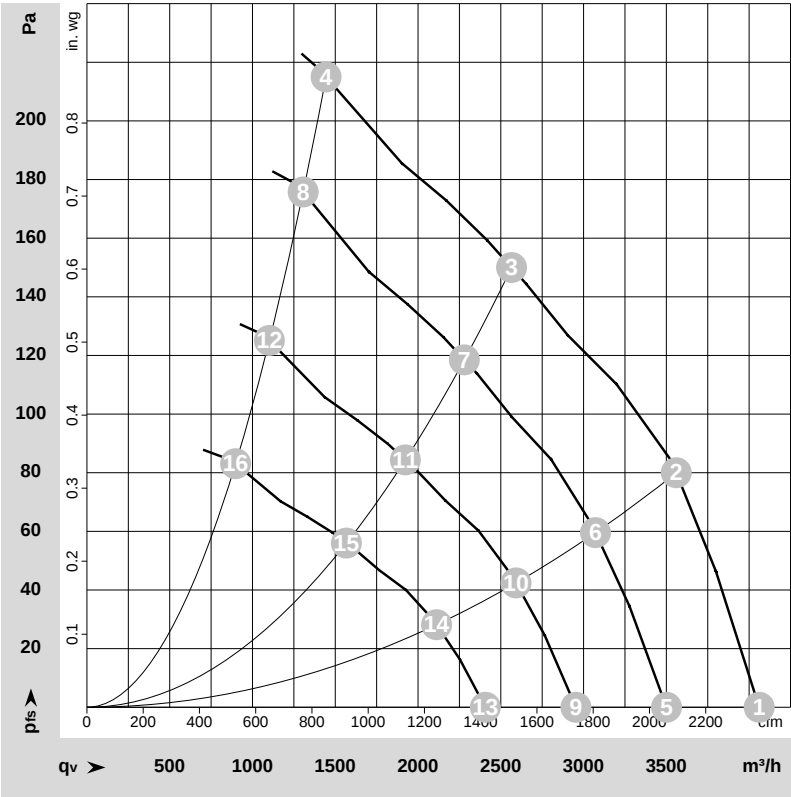
No.	Conn.	Designation	Color	Function/assignment
	PWR	PE	green/yellow	Protective earth
	PWR	L	black	Power supply, phase, see nameplate for voltage range
	PWR	N	blue	Power supply, neutral conductor, see nameplate for voltage range
	PWR	COM	orange	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) / min. 10 mA, reinforced insulation on supply side and on control interface side
	PWR	NC	orange	Status relay, floating status contact, break for failure
	CTRL	GND	blue	Reference ground for control interface, SELV
	CTRL	Vout	red	Voltage output 10 VDC +/-3%, I _{max} =10 mA Short-circuit-proof, power supply for external devices, SELV
	CTRL	IO1	yellow	Factory setting: Analog input 0-10 V / PWM, R _i =100 kΩ, function: set value Characteristic curve parameterizable (see input characteristic curve "Input curve 1"), SELV Function parameterizable at the factory (see table Optional interface functions)
	CTRL	IO2	white	Factory setting: Open collector output, U _{max} =50 VDC, I _{max} =20 mA, function:Tacho output 1 pulse/revolution, SELV Function parameterizable at factory (see table Optional interface functions)

8300101746
VMA0350CSNJS

EC axial panel fan - AxiEco

sickle-shaped blades (S series)
with guard grille for short nozzle

Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-233780-1
Date: 2024-09-30
Housing: 35100-2-4013

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	1~	230	50	1855	232	1.04	67	73	4060	0	2390	0.00
2	1~	230	50	1855	273	1.22	63	70	3560	80	2095	0.32
3	1~	230	50	1800	275	1.22	62	69	2565	150	1510	0.60
4	1~	230	50	1770	274	1.22	67	74	1445	215	850	0.86
5	1~	230	50	1600	149	0.67	63	70	3500	0	2060	0.00
6	1~	230	50	1600	175	0.78	60	66	3070	60	1810	0.24
7	1~	230	50	1600	193	0.86	59	66	2280	119	1340	0.48
8	1~	230	50	1600	203	0.90	65	72	1305	176	770	0.71
9	1~	230	50	1350	89	0.40	59	65	2955	0	1740	0.00
10	1~	230	50	1350	105	0.47	55	62	2590	42	1525	0.17
11	1~	230	50	1350	116	0.52	55	62	1925	84	1130	0.34
12	1~	230	50	1350	122	0.54	61	68	1100	125	650	0.50
13	1~	230	50	1100	48	0.22	54	60	2405	0	1415	0.00
14	1~	230	50	1100	57	0.25	50	57	2110	28	1245	0.11
15	1~	230	50	1100	63	0.28	50	57	1565	56	920	0.22
16	1~	230	50	1100	66	0.29	55	62	900	83	530	0.33

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase