

8300100487
VWT0350CSLFS

EC axial panel fan - AxiEco

Fan housing with guard grille

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Nominal data

Item	8300100487	
Motor	E06003-30	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	1075
Power consumption	W	68
Current draw	A	0.6
Max. back pressure	Pa	75
Max. back pressure	in. wg	0.3
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

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Technical description

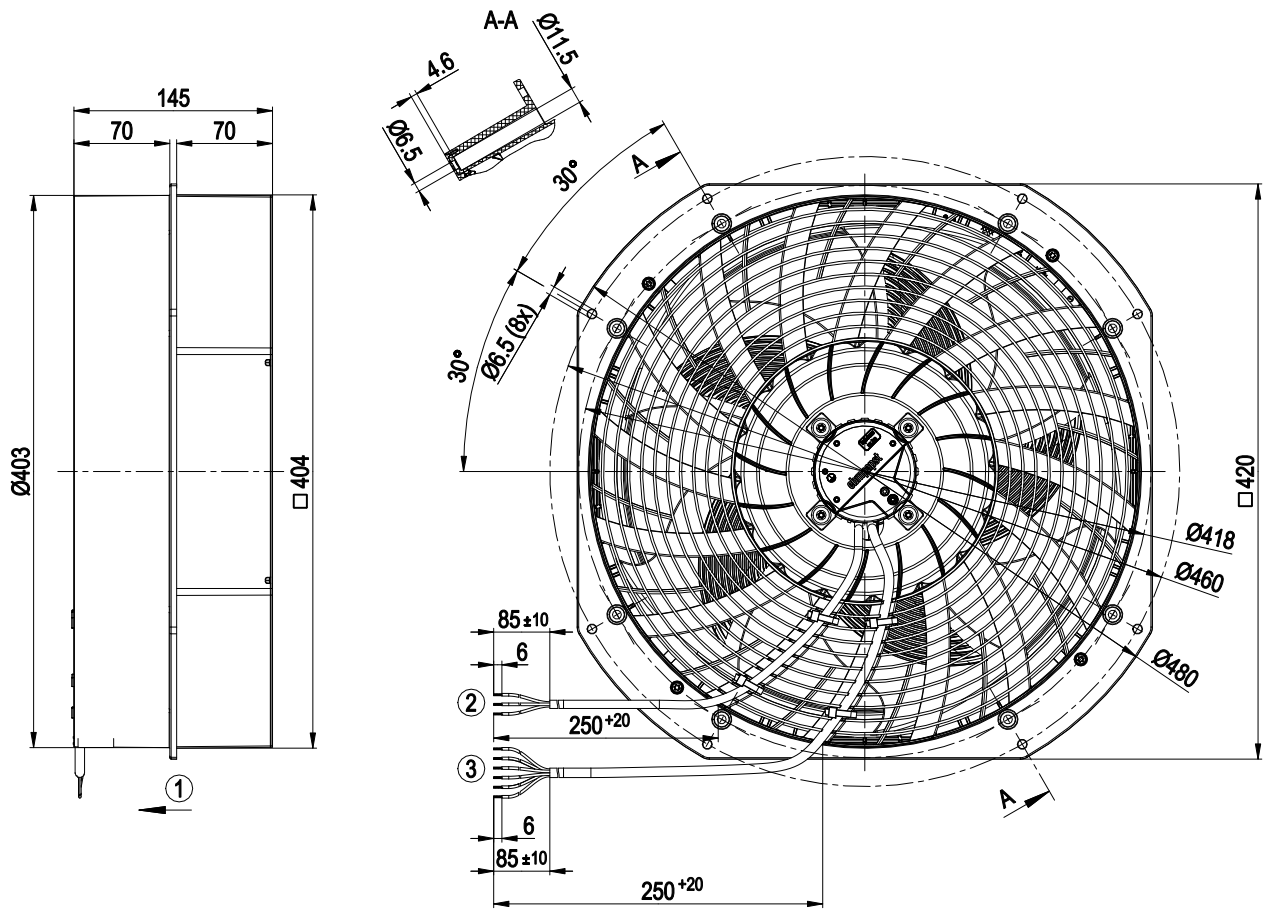
Size	350 mm
Motor size	60
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Fan housing material	PP plastic
Number of blades	5
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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	- Output 10 VDC, max. 10 mA - Locked-rotor detection - Tach output - Speed control - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Thermal overload protection for electronics/motor - Line undervoltage detection
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 by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; CE; UKCA
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.

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Product drawing



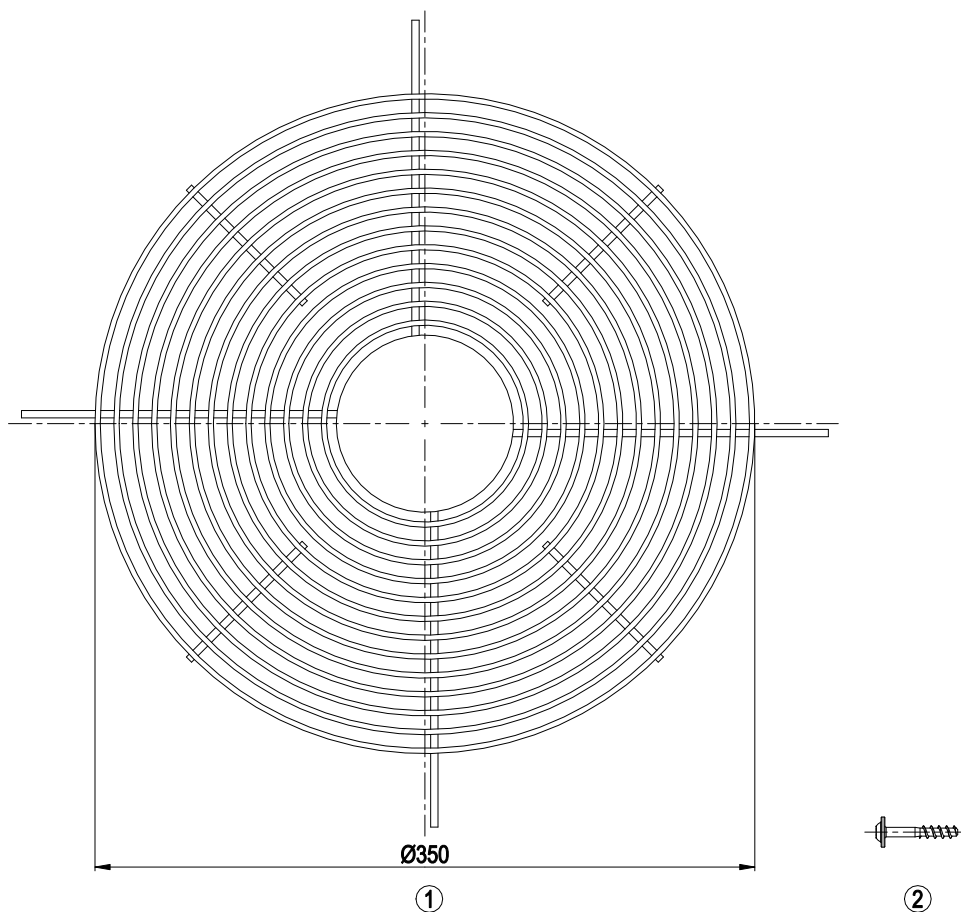
1	Airflow direction "V"
2	Supply line (PWR) PVC AWG20
	3x splice
3	Control wire (CTRL) PVC AWG22
	6x splice
	Accessory part: Guard grill 35050-2-4039 with oval head screw 60080-7-6201 (4x), can be fitted on the intake side. Not included in scope of delivery.
	The installation of accessories may change the air performance and noise values.

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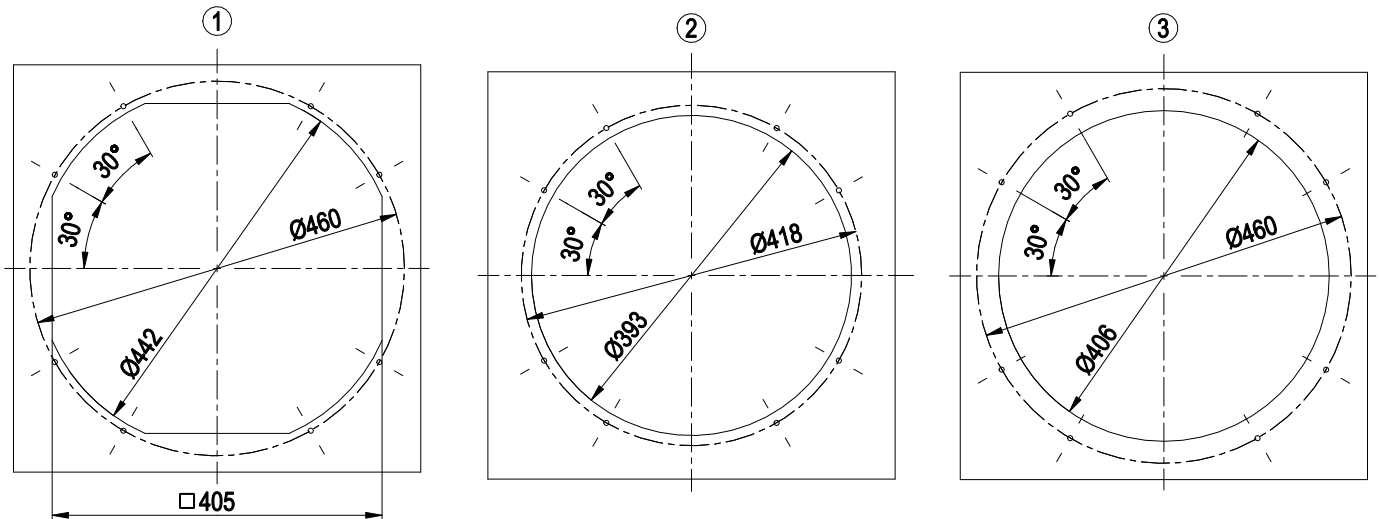
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Accessory part



1	Guard grill 35050-2-4039
2	Oval head screw 60080-7-6201 (4x)

Mounting dimensions



All 8 holes on the relevant pitch circle must always be used for all types of fastening.

1 intake-side mounting on flange

2 intake-side mounting on suction nozzle

The Ø6.5 mm holes must be pierced from the underside with a mandrel or similar tool.

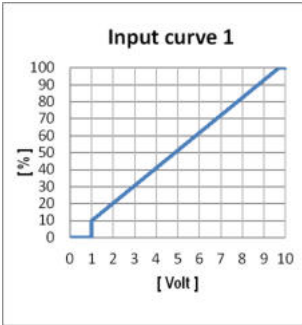
We recommend using M6 cheese-head screws with hexagon socket (DIN 912/DIN EN ISO 4762) for fastening.

3 outlet-side mounting on flange

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Connection diagram



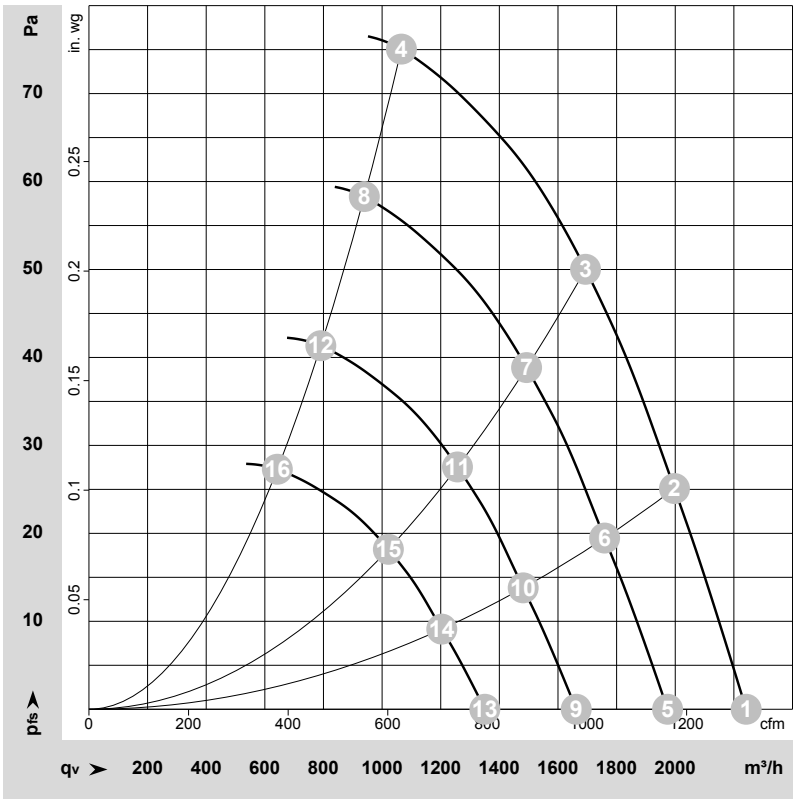
No.	Conn.	Designation	Color	Function/assignment
	PWR	L	black	Power supply, phase, see nameplate for voltage range
	PWR	N	blue	Power supply, neutral conductor, see nameplate for voltage range
	PWR	PE	green/yellow	Protective earth
	CTRL	GND	blue	Reference ground for control interface, SELV
	CTRL	IO1	yellow	Factory setting: Analog input 0-10 V/PWM, Ri=100 KΩ, fPWM=1 kHz..10 kHz, Function: Speed set value Characteristic curve parameterizable (see "Input curve 1"), SELV Function parameterizable at the factory (see Optional interface functions table)
	CTRL	IO2	white	Factory setting: Open collector output, Umax=50 VDC, Imax= 10 mA, function: Tach output 1 pulse/revolution, SELV Function parameterizable at factory (see table Optional interface functions)
	CTRL	Vout	red	Voltage output 10 VDC +/-3%, Imax=10 mA Short-circuit-proof, power supply for external devices, SELV
	CTRL	-	gray	No function
	CTRL	-	brown	No function

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Basic (B4)												
Factory configuration option upon request												
Factory configuration option												
IO1	configurable IO mode			electrical specification			INPUT			OUTPUT		
	Dim1 (high active): digital input			active: parameterizable voltage x-30 VDC			☐	☐	☐	signal: tach out	signal: diagnostics out	signal: alarm out
	Ain1 0-10 V/PWM: analog input			not active: pin open or parameterizable voltage <x VDC, SELV			☐	☐	☐	configurable function	signal: run monitoring	signal: status
IO2	Tach out (open collector)			Ri = 100 kΩ, characteristic curve parameterizable, $f_{PWM} = 1k..10\text{ kHz}$, SELV			☐	☐	☐	configurable function	signal: tach out	signal: diagnostics out
	Diagnostics out (open collector)			Umax=50 VDC, Imax=10 mA, SELV			☐	☐	☐	switch: enable/disable input	signal: tach out	signal: diagnostics out
	Alarm out (open collector)			Umax=50 VDC, Imax=10 mA, SELV			☐	☐	☐	switch: direction of rotation: cw / ccw	signal: tach out	signal: diagnostics out
	Open collector			Umax=50 VDC, Imax=10 mA, SELV			☐	☐	☐	switch: parameter set: #1 / #2	signal: tach out	signal: diagnostics out
Voltage output				Voltage 10 VDC, SELV			☐	☐	☐	source: set value	signal: tach out	signal: diagnostics out
Vout										☐	signal: tach out	signal: diagnostics out

Curves: Air performance 50 Hz



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

Measurement: LU-227316-1
Date: 2023-06-19
Nozzle: 35000-2-2943

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)	m³/h	Pa	cfm	in. wg
1	1~	230	50	1075	51	0.46	57	63	2240	0	1320	0.00
2	1~	230	50	1075	59	0.53	55	61	1995	25	1175	0.10
3	1~	230	50	1075	65	0.58	53	59	1695	50	995	0.20
4	1~	230	50	1075	68	0.60	53	60	1065	75	625	0.30
5	1~	230	50	950	35	0.31	54	60	1975	0	1160	0.00
6	1~	230	50	950	40	0.36	52	58	1760	19	1035	0.08
7	1~	230	50	950	45	0.39	50	56	1495	39	880	0.16
8	1~	230	50	950	47	0.41	50	57	940	58	555	0.23
9	1~	230	50	800	21	0.19	50	56	1660	0	980	0.00
10	1~	230	50	800	24	0.21	48	54	1480	14	870	0.06
11	1~	230	50	800	27	0.24	45	52	1255	28	740	0.11
12	1~	230	50	800	28	0.25	46	53	790	41	465	0.16
13	1~	230	50	650	11	0.10	45	50	1350	0	795	0.00
14	1~	230	50	650	13	0.11	42	48	1205	9	710	0.04
15	1~	230	50	650	14	0.13	40	47	1020	18	600	0.07
16	1~	230	50	650	15	0.13	40	48	645	27	380	0.11

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