8300101486
VWT0350CSNDS

EC axial panel fan - AxiEco

with guard grille

Nominal data

Item		8300101486
Motor		E07432-18

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Status		prelim.
Speed (rpm)	min-1	1220
Power consumption	W	85
Current draw	A	0.7
Max. back pressure	Pa	100
Max. back pressure	in. wg	0.4
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

ebmpapst

EC axial panel fan - AxiEco

with guard grille

Technical description

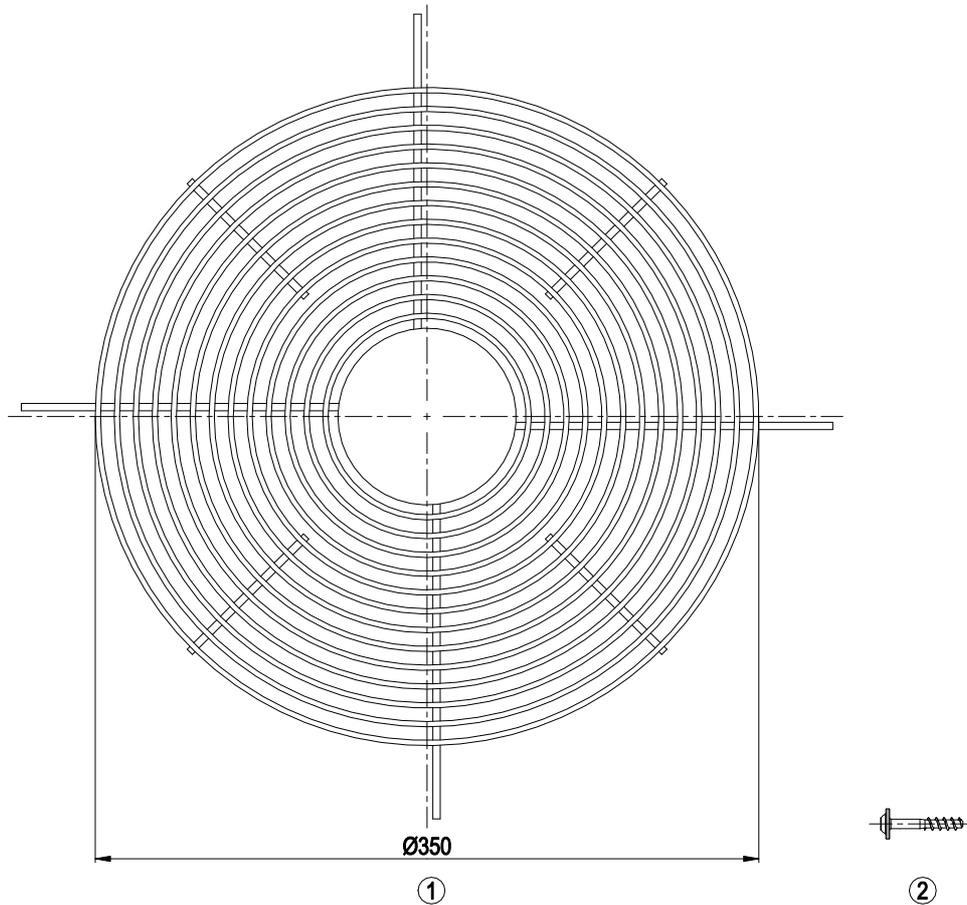|	
Size	350 mm
Motor size	74
Rotor surface	Thick-film passivated
Terminal box material	PP plastic
Impeller material	PP plastic
Fan housing material	PP plastic
Number of blades	5
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (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
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 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.

ebmpapst

EC axial panel fan - AxiEco

with guard grille

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.

ebm**papst**

EC axial panel fan - AxiEco

with guard grille

Accessory part

Ø350

① ②

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

ebmpapst

EC axial panel fan - AxiEco

with guard grille

Mounting dimensions

① Ø460 Ø442 □405

② Ø418 Ø393

③ Ø460 Ø406
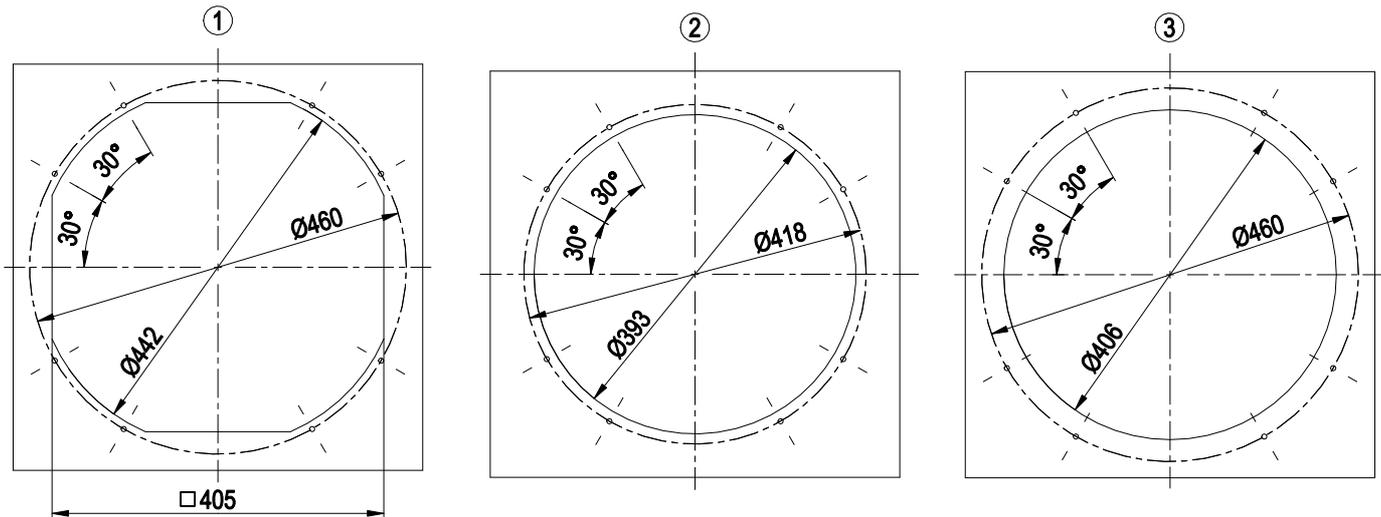
|	
	All 8 holes on the relevant pitch circle must always be used for all types of fastening.
1	intake-side mounting on flange
2	intake-side mounting on suction nozzle
	The Ø6.5 mm holes must be pierced from the underside with a mandrel or similar tool.
	We recommend using M6 cheese-head screws with hexagon socket (DIN 912/DIN EN ISO 4762) for fastening.
3	outlet-side mounting on flange

ebmpapst

EC axial panel fan - AxiEco

with guard grille

Connection diagram

Input curve 1
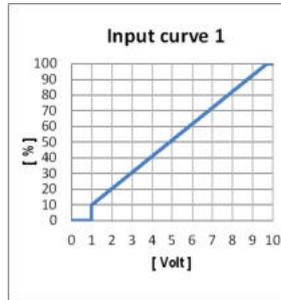
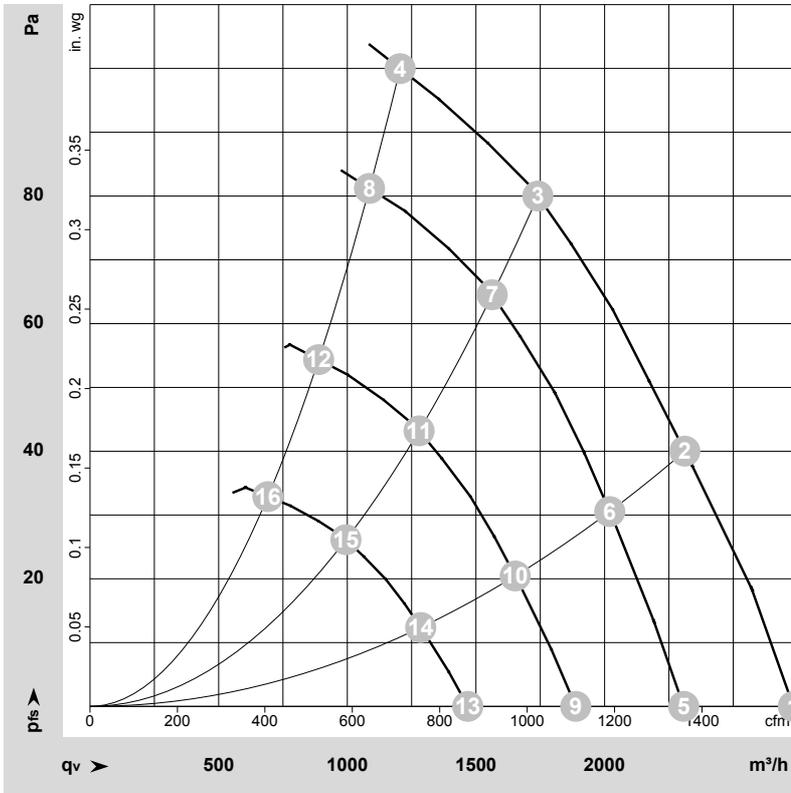| No.	Conn.	Designation	Color	Function/assignment
	PWR	L	black	Power supply, phase, see nameplate for voltage range
	PWR	N	blue	Power supply, neutral conductor, see nameplate for voltage range
	PWR	PE	green/yellow	Protective earth
	CTRL	GND	blue	Reference ground for control interface, SELV
	CTRL	IO1	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=1.1 mA Not short-circuit-proof, power supply for external devices, SELV

ebmpapst

EC axial panel fan - AxiEco

with guard grille

8300101486
VWT0350CSNDS

Terminal/plug assignment

Basic (B4)

Factory configuration option upon request

o *Factory configuration option*

IO	configurable IO mode	electrical specification	source: set value	switch: parameter set: #1 / #2	switch: direction of rotation: cw / ccw	switch: enable/disable input	configurable function	signal: tach out	signal: diagnostics out	signal: alarm out	signal: run monitoring	signal: status	signal: configurable function
IO1	**Din1** (high active): digital input	active: parameterizable voltage x-30 VDC / not active: pin open or parameterizable voltage <x VDC, SELV		o	o	o	o						
	Ain1 0-10 V/PWM: analog input	R_i = 100 kΩ, characteristic curve parameterizable, f_{PWM} = 1k..10 kHz, SELV	o				o						
IO2	**Tach out** (open collector)	Umax=50 VDC, Imax=10 mA, SELV						o					
	Diagnostics out (open collector)	Umax=50 VDC, Imax=10 mA, SELV							o				
	Alarm out (open collector)	Umax=50 VDC, Imax=10 mA, SELV								o			
	Open collector	Umax=50 VDC, Imax=10 mA, SELV									o	o	o
Vout	Voltage output	Voltage10 VDC, SELV											

INPUT / OUTPUT

ebmpapst

EC axial panel fan - AxiEco

with guard grille

Curves: Air performance 50 Hz

ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-230521-1
Date: 2024-01-30
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	1305	82	0.68	62	68	2735	0	1610	0.00
2	1~	230	50	1260	85	0.71	59	66	2310	40	1360	0.16
3	1~	230	50	1225	86	0.71	55	62	1740	80	1025	0.32
4	1~	230	50	1220	85	0.71	59	66	1205	100	710	0.40
5	1~	230	50	1100	49	0.41	57	63	2305	0	1360	0.00
6	1~	230	50	1100	57	0.47	56	62	2020	31	1190	0.12
7	1~	230	50	1100	62	0.51	53	60	1565	65	920	0.26
8	1~	230	50	1100	63	0.52	56	63	1085	81	640	0.33
9	1~	230	50	900	27	0.22	52	58	1890	0	1110	0.00
10	1~	230	50	900	31	0.26	51	57	1655	20	975	0.08
11	1~	230	50	900	34	0.28	48	54	1280	43	755	0.17
12	1~	230	50	900	34	0.28	51	58	890	54	525	0.22
13	1~	230	50	700	13	0.11	46	52	1470	0	865	0.00
14	1~	230	50	700	15	0.12	45	51	1285	12	755	0.05
15	1~	230	50	700	16	0.13	41	48	995	26	585	0.10
16	1~	230	50	700	16	0.13	44	52	690	33	405	0.13

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

ebmpapst