

## 2. Especificación de producto - Datos técnicos

N.º de artículo	153703
Tipo	FN030-4EW.WC.A7
Denominación	Axial fan with sickle blades
Datos de medición	1~230V 50Hz P <sub>1</sub> 90W 0.38A ΔI=0% 1230/min 3.0uF/400V 60°C 1~230V 60Hz P <sub>1</sub> 110W 0.50A ΔI=0% 1360/min 3.0uF/400V test55°C
Conexión eléctrica	Terminal box K09
Datos ErP	Not subject to the regulations of ErP directive (P <sub>1</sub> < 125 W)
Tipo de protección	IP44 EN60034-5
Clase de aislamiento térmico	THCL155
Diagrama de conexiones	1360-177X
Placa de características	1x fixed
Posición de montaje	H/Vu/Vo
Protección del motor	thermal contact
Impregnación	Moisture and hot climate protection
condensación	Condensation water holes in stator/rotor open
Calidad de los rodamientos	ball bearing with long-time lubrication
Material del rotor	Aluminium
Color del rotor	RAL 5002 (ultramarine blue)
Material de las palas	High Performance Composite Material
Color de palas	black
Tipo de rejilla	ring grill
Pintura de la suspensión del motor	Motor suspension powder-coated resistance class 2 (L-TI-0585)
Color de la suspensión	RAL 9005 (jet black)
Weight	4.00 kg

## 6. Curva característica

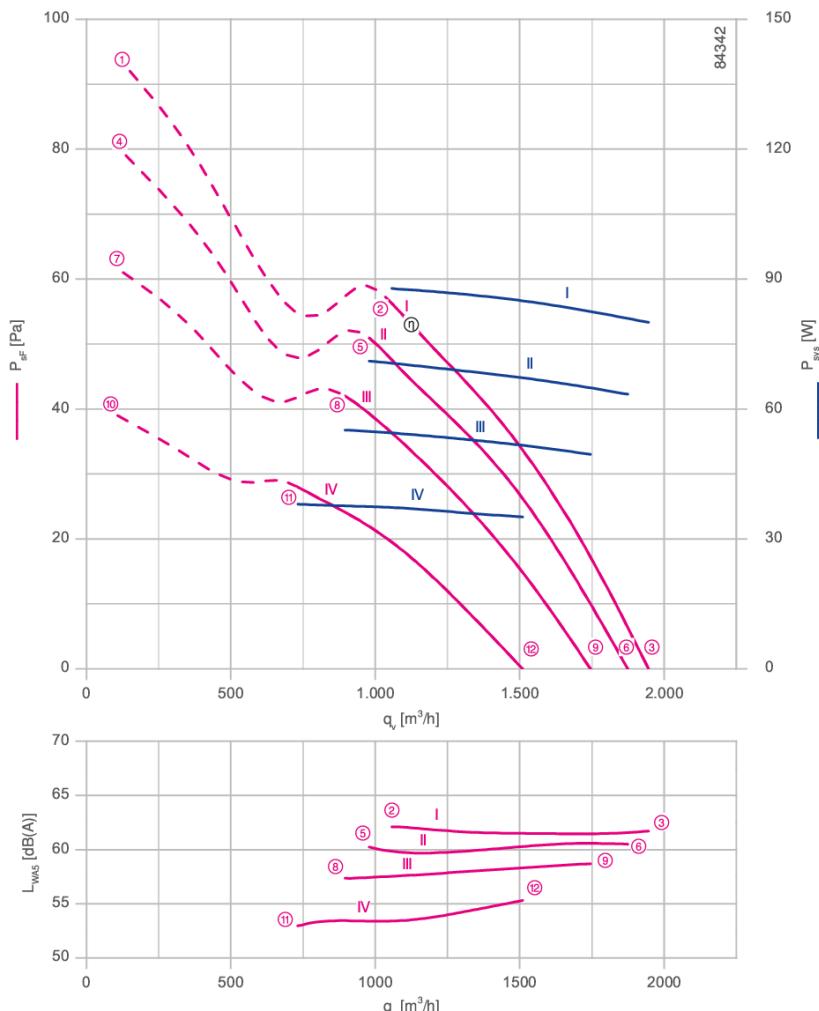
Kennliniexx123

UmbruchKL

### Characteristic curve

Frequency: 50 Hz

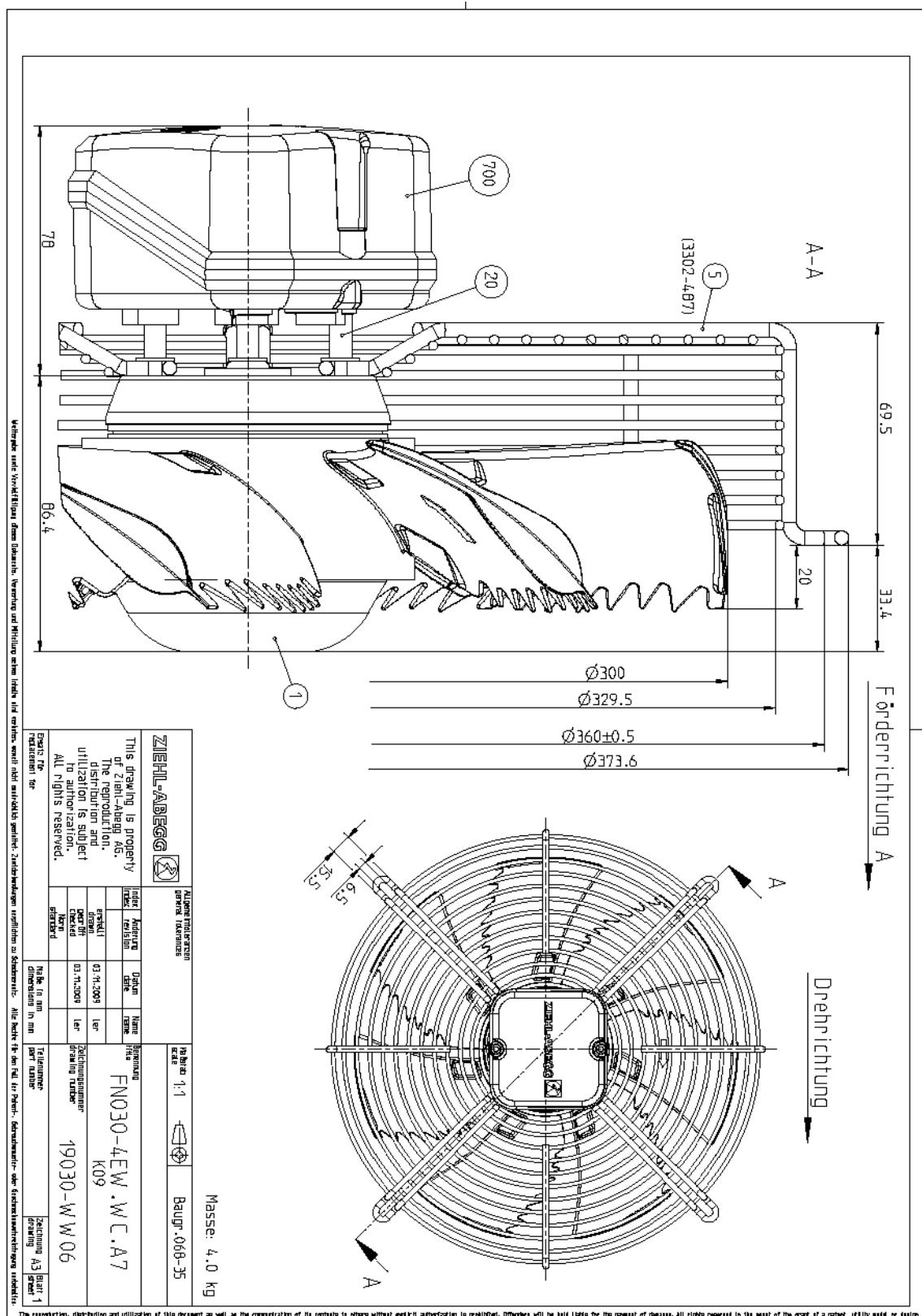
Medido en tobera completa sin protección contra contacto



I = 1~230 V L, II = 1~200 V L, III = 1~170 V L, IV = 1~135 V L

Punto de trabajo	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
Curva característica	I	I	I	II	II	II	III	III	III	IV	IV	IV
Conexión	L	L	L	L	L	L	L	L	L	L	L	L
Voltaje	V	230	230	230	200	200	200	170	170	135	135	135
Potencia de entrada del motor	W	95	90	80	75	70	65	60	55	40	38	36
Corriente	A	0.42	0.39	0.35	0.38	0.35	0.32	0.34	0.32	0.29	0.29	0.26
Velocidad	$\text{min}^{-1}$	1160	1230	1320	1080	1160	1270	950	1050	1200	760	860
Nivel de potencia acústica lado de aspiración	dB(A)	67	62	62	65	60	61	62	57	59	56	53

## 7. Plano



Dimensiones en mm

**El esquema adjunto es sólo a efectos de dimensiones.**

## 8. Diagrama de conexiones

wiring diagram: 1360-177X

1~ Motor with capacitor and thermostatic switch.

BU/GY blue or grey

BK black

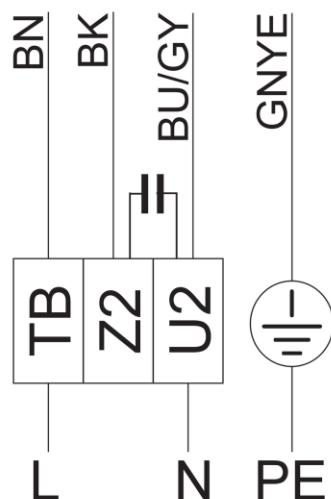
BN brown

GNYE green-yellow

1~ Motor mit Kondensator und  
Thermostatschalter.

1~ motor with capacitor and  
thermostatic switch.

177X-04



BN - braun, brown

BK - schwarz, black

BU/GY- blau oder grau, blue or grey

GNYE - grün-gelb, green-yellow

## 9. Aerodynamics and Acoustics

### Measurement method

The characteristic map display shows the pressure increase  $\Delta p_{sF}$  in Pa as a function of the volume flow rate  $q_v$  in  $m^3/h$ .

### Technical conditions of supply

The specified performance data meet the respective requirements for accuracy

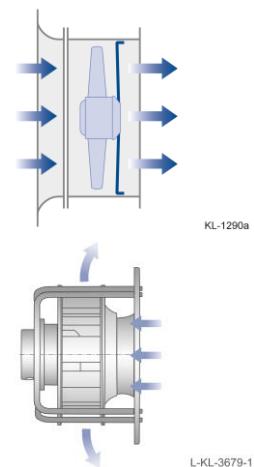
- AN2 for centrifugal impellers without motor
  - AN3 for centrifugal fans with standard motors
  - AN2 for centrifugal impellers with ECblue motors (except EC055)
  - AN3 for centrifugal impellers with ECblue motor EC055 (see type key)
  - AN3 for axial fans with ECblue motors
  - AN4 for axial fans with AC external rotor motors
- in line with **ISO 13348** and apply to the rated data and air performance curves at the rated voltage. The continuous line in the characteristic curve represents the optimum reliable operating range for fans.

### Fan test bench

The fan characteristic curves are determined on a combined ventilation and sound test bench.

The characteristic curves are measured in compliance with **DIN EN ISO 5801** and **AMCA 210-99**. The sound power levels are measured in compliance with **DIN EN ISO 3745** and **ISO 13347-3** using the enveloping surface measuring method.

The figure below shows an example of the measuring setup. The fan is installed in the measuring chamber at free inlet and free exhaust (installation type A as per **DIN EN ISO 5801** or **AMCA 210-99**).



Technology Centre (InVent)

### Air density

The air density and humidity are conditioned during the measurement using heat exchangers and kept largely constant. The characteristic curves shown refer to the measuring density. The mean measuring density is  $1.16 \text{ kg/m}^3$ .

