

## AW 650 D6-2-EX Axial fan ATEX

Axial wall fan, explosion proof, II 2G c Ex e IIB T3

Item Number: 5972

Variant: 400V 3~ 50Hz

Certified according to ATEX

Speed-controllable

Integral thermal contact

Explosion proof

The AW - EX fans have speed controllable external rotor motors. The fans have a square plate for wall mounting and are painted in standard black. The casing and impeller is manufactured from sheet steel. To protect the motor from overheating, integral thermistors are fitted with external leads which must be connected to the U-EK230E motor protection relay.

The AW-Ex fan motor is approved according to ATEX. Useful for Zone 1 and 2, groups IIA, IIB and temperature class T1, T2, or T3 (AW 355 and AW 420 also T4). Ignition protection "e".

Accessories for Ex-fans only on request.



### Technical parameters

Nominal data		
Voltage (Nominal)	400	V
Frequency	50	Hz
Phase(s)	3~	
Input power	1,077	W
Input current	1.78	A
Impeller speed	790	r.p.m.
Air flow	max 3.039	m³/s
Temperature of transported air	max 40	°C
Max temperature of transported air, when speed controlled	40	°C
Sound data		
Sound pressure level at 3m (20m² Sabin)	72	dB(A)

**Protection/Classification**

Enclosure class, motor	IP44
Insulation class	F
Explosion proof marking	II 2G c Ex e IIB T3
Certificate	ZELM 05ATEX0279X

**Data according to ErP**

ErP ready	Not ErP relevant
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**Controller and Sensors**

Ambient and duct temperature	-20 to 40 °C
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**Dimensions and weights**

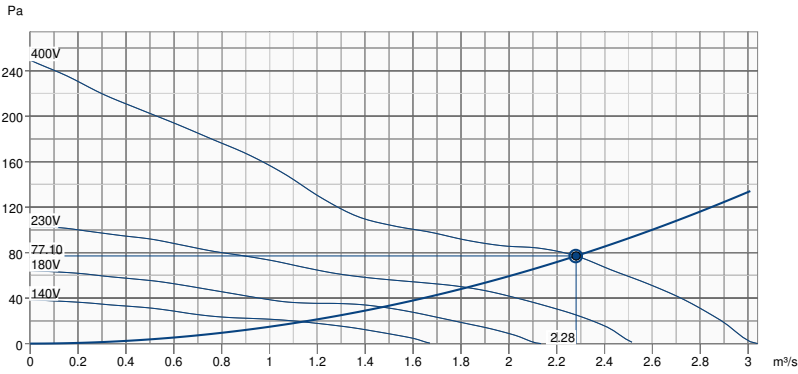
Weight	18.9 kg
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**Others**

Motor type	AC
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# Performance

## Performance curve

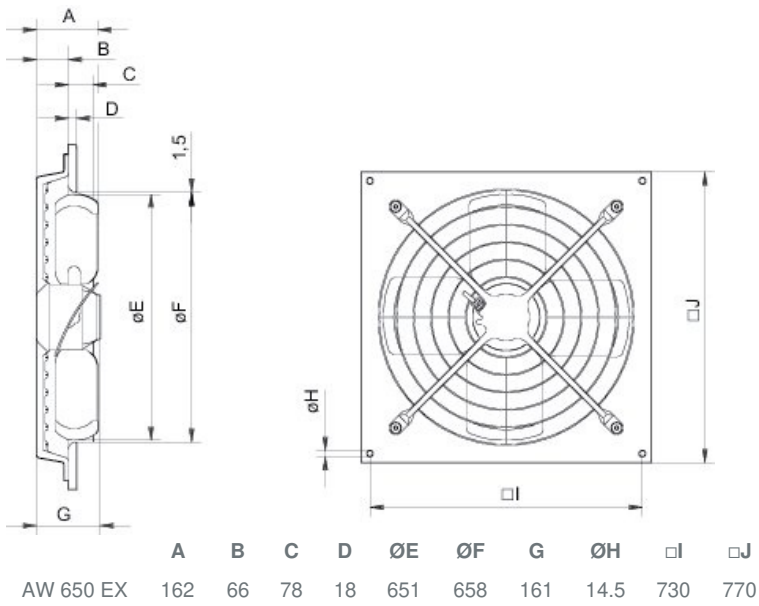


### Hydraulic data

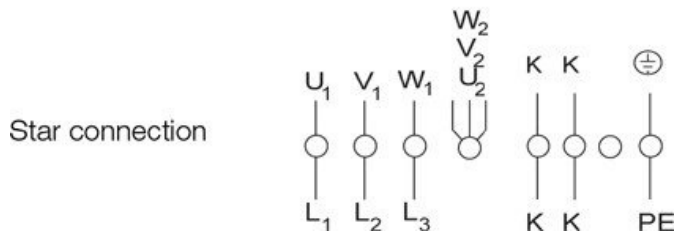
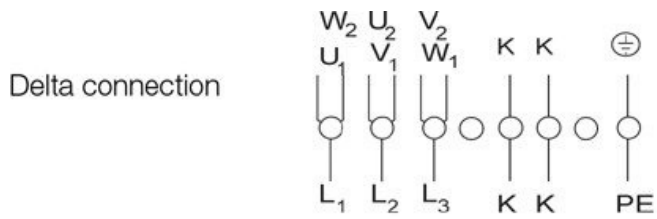
Required air flow	2.28 m³/s
Required static pressure	77 Pa
Working air flow	2.28 m³/s
Working static pressure	77 Pa
Air density	1.204 kg/m³
Power	607.4 W
Fan control - RPM	909 rpm
Current	1.19 A
SFP	0.266 kW/m³/s
Control voltage	400.0 V
Supply voltage	400 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	46	58	67	70	71	70	63	55	76

## Dimension



## Wiring



U1	brown
V1	blue
W1	black
U2	red
V2	grey
W2	orange
K	white
PE	green/yellow

Test-voltage on temperature sensor max. 2,5V.

## Accessories

- REV-5POL/07-7,5kW R/Y (33980)
- RTRD 2 Speed Cont. Systemair (5941)
- U-EK230E Motor protection (30199)
- REV-9POL/12-7,5kW R/Y (33981)
- RTRDU 2 Speed contr. Systemair (5945)
- REV-3POL/ATEX-11kW R/Y (36414)

## Documents

- imo\_fans\_atex\_en\_004
- 1.SUPP\_ZELM 05 ATEX 0279X\_EN.PDF
- Zelm\_05\_ATEX0279.pdf
- EU\_DECLARATION\_OF\_CONFORMITY\_ALL\_009\_314830.PDF

## Specification