This product is discontinued

This product is discontinued

This product was replaced by **AW 500D EC Axial fan**

Find more details in our online catalogue

Certifications

Green Ventilation

Technical parameters

Nominal data		
Voltage (nominal)	400	V
Frequency	50; 60	Hz
Phases	3~	
Input power	1,007	W
Input power kW	1.007	kW
Input current	1.61	A
Impeller speed	1,610	rpm
Air flow	max 10,386	m³/h
Air flow at max. efficiency	6,630	m³/h
Specific ratio	1,000000	
Temperature of transported air	max 60	°C
Max temperature of transported air, when speed controlled	60	°C

Protection/Classification		
Enclosure class, motor	IP54	
Insulation class	B	

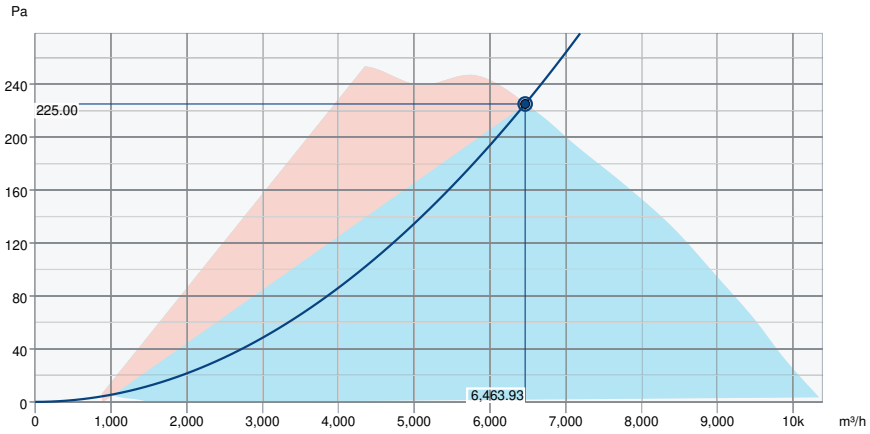
Data according to ErP		
ErP ready	ErP 2018	
Measurement category	A	
Efficiency grade	49.8	ηactual
Efficiency, static	43.5	ηstatA
Target efficiency grade ErP2013	36	ηtarget2013
Target efficiency grade ErP2015	40	ηtarget2015

Dimensions and weights		
Weight	17.2	kg

Others		
Color name, casing	Black	
Motor type	EC	

Performance

Performance curve



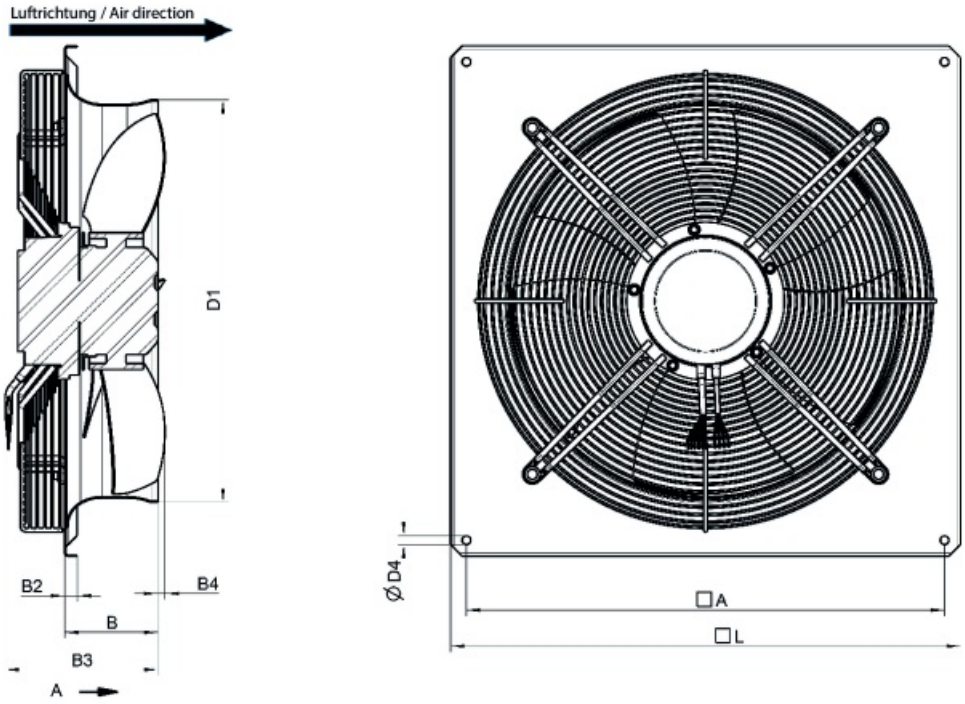
Hydraulic data	
Required air flow	6,464 m³/h
Required static pressure	225 Pa
Working air flow	6,464 m³/h
Working static pressure	225 Pa
Air density	1.204 kg/m³
Power	1,007.1 W
Fan control - RPM	1,610 rpm
Current	1.60 A
SFP	0.561 kW/m³/s
Control voltage	10.0 V
Supply voltage	400 V

Sound power level		**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total**
Inlet	dB(A)	58	62	64	69	71	71	69	62	77

Ecodesign

Ecodesign 327		
Manufacturer	Systemair GmbH	
Type	AW 500D EC	
Year of manufacture	See name plate of the fan	
Air flow qv	6,630	m^3/h
Efficiency category	static	
Efficiency grade N	49.8	
Efficiency grade target N	40	
Speed (rpm) n	1,610	rpm
Pressure increase total psf	218	Pa
Power consumption Ped	1,000	W
Overall efficiency	43.5	%
Overall efficiency target	33.7	%
Variable speed drive	Yes	
Additional components	Components used to calculate the energy efficiency that are not apparent from the measurement category are detailed in the CE declaration.	
Maintenance	Information on installation, operation and mainenance is provided in the operating instructions.	
Recycling / disposal	Information on recycling and disposal is provided in the operating instructions.	

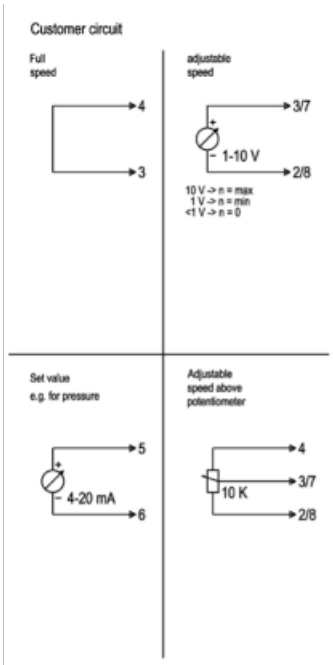
Dimension

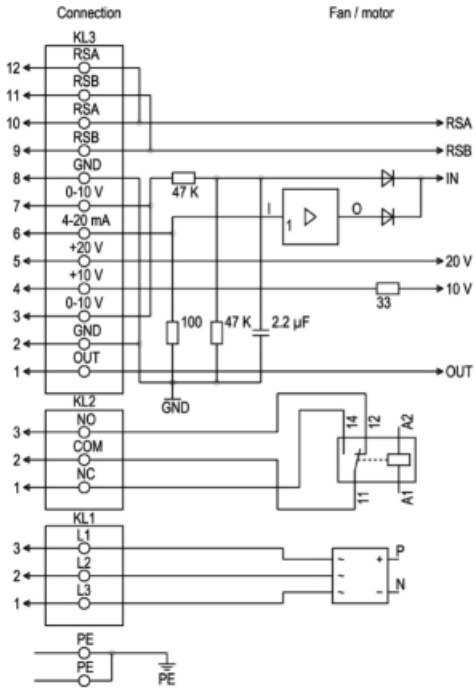


	□A	B	B2	B3	B4	ØD1	ØD4	□L
AW 500D EC sileo	615	120	16	181	8	517	11	656

Wiring

No.	Pin	Signal	Function / assignment
PE	-	PE	Protective earth connection
KL1	1, 2, 3	L1, L2, L3	Supply voltage, 50/60 Hz
KL2	1	NC	Floating status message contact, break for failure
KL2	2	COM	Floating status message contact, changeover contact, common connection (2 A, max. 250 VAC, min. 10 mA, AC1)
KL2	3	NO	Floating status message contact, normally open, make for failure
KL3	1	OUT	Analogue output, 0-10 VDC, max. 3 mA, SELV, Output of the current motor level control coefficient: 1 V corresponds to 10% level control coefficient, 10 V correspond to 100% level control coefficient.
KL3	2, 8	GND	Reference mass for control interface, SELV
KL3	3, 7	0-10 V	Use control / actual value input 0-10 VDC, impedance 100 kΩ only as alternative to 4-20 mA input, SELV
KL3	4	+10 V	Voltage output 10 VDC (+/- 3%), max. 10 mA, Supply voltage for ext. devices (e.g. potentiometer), SELV
KL3	5	+20 V	Voltage output 20 VDC (+25%/-10%), max. 50 mA, Supply voltage for ext. devices (e.g. sensors), SELV
KL3	6	4-20 mA	Use control / actual value input 4-20 mA, impedance 100 Ω, only as alternative to 0-10 V input, SELV
KL3	9, 11	RSB	RS485 interface for MODBUS, RSB
KL3	10, 12	RSA	RS485 interface for MODBUS, RSA


Customer circuit
Full speed
4
3
adjustable speed
3/7
1-10 V
2/8
10 V -> n = max
1 V -> n = min
<1 V -> n = 0
Set value
e.g. for pressure
5
4-20 mA
6
Adjustable speed above potentiometer
4
10 K
3/7
2/8


Connection
Fan / motor
KL3
RSA
RSB
RSA
RSB
GND
0-10 V
4-20 mA
+20 V
+10 V
0-10 V
GND
OUT
12
11
10
9
8
7
6
5
4
3
2
1
47 K
100
47 K
2.2 µF
GND
RSA
RSB
IN
20 V
10 V
33
OUT
KL2
NO
COM
NC
14
12
A2
11
A1
KL1
L1
L2
L3
P
N
PE
PE
PE

Accessories

- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Vent control board (3115)
- MTP 10, 10K, Speed control (32731)
- Potentiometer MTP 20, 0-10V (310220)
- SG AW-D BGr 050, RAL 9005 (30603)
- VK-56 Louvre shutter (87714)
- REV-5POL/05-7,5kW B/G (281745)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent Room Unit (3018)
- MTV-1/010 Controller 0..10V+ (30650)
- REV-5POL/05-7,5kW R/Y (35757)
- Step switch S-5EC-2, 0-10V (449084)
- AW 500D EC Axial fan (448440)

Documents

- MANUAL_AW__AR_EBM_EN_003-MIN.PDF
- EU Declaration of Conformity_002
- installation variations_2_AR_AW.pdf