AC axial compact fan

sickle-shaped blades (S series), single-intake

W2D200-HH04-08 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	**W2D200-HH04-08**	
Motor	**M2D068-BC**	
Phase		3~
Nominal voltage	VAC	440
Wiring		Y
Frequency	Hz	60
Method of obtaining data		fa
Valid for approval/standard		-
Speed (rpm)	min^{-1}	2800
Power consumption	W	70
Current draw	A	0.11
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

AC axial compact fan

sickle-shaped blades (S series), single-intake

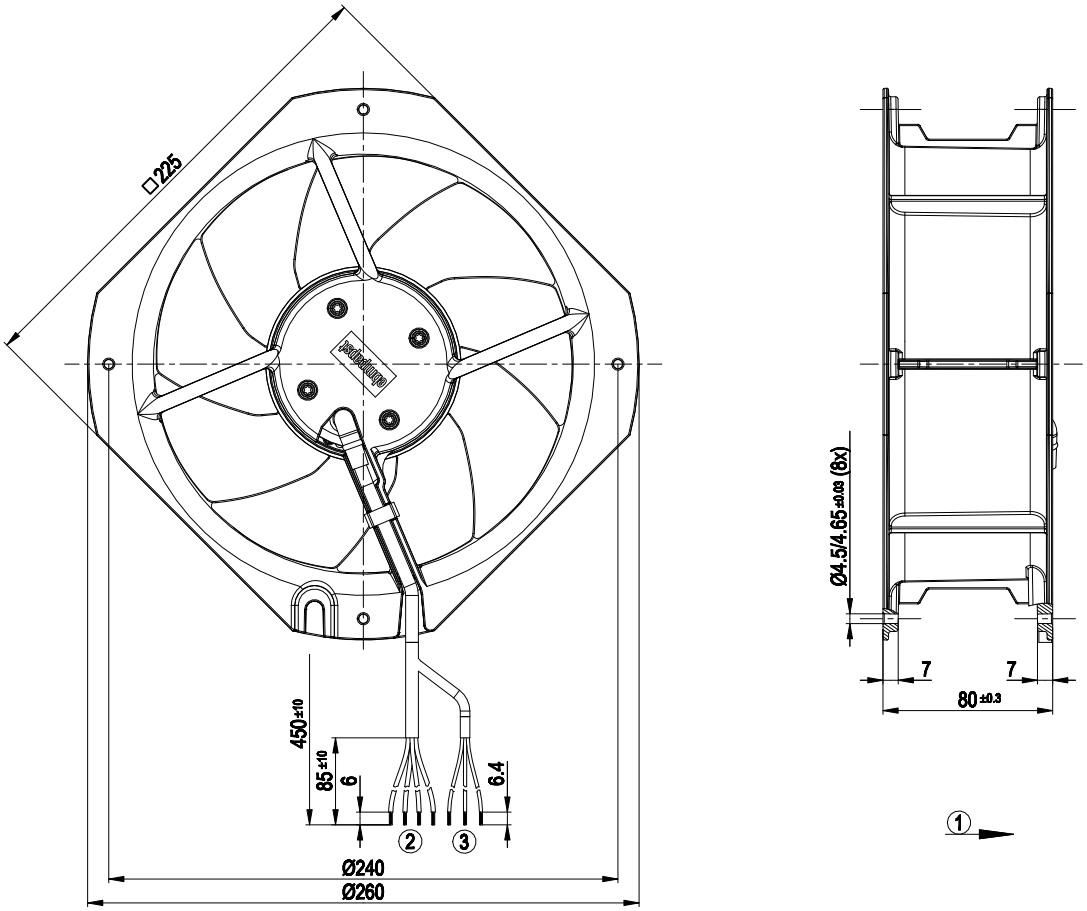
Technical description

Weight	2.0 kg
Fan size	200 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum
Number of blades	9
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F2-2
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
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection

AC axial compact fan

sickle-shaped blades (S series), single-intake

Product drawing

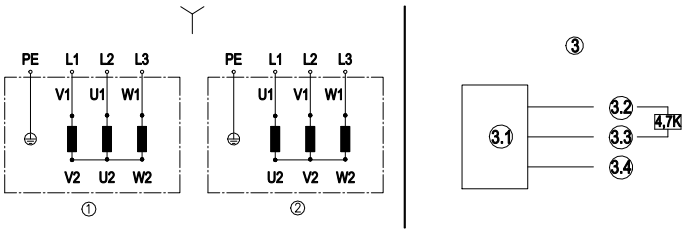


1	Direction of air flow "V"
2	Cable silicone 4G 0.5 mm², 4x crimped splices
3	Cable Raychem Spec. 44, AWG24, 3x crimped splices

AC axial compact fan

sickle-shaped blades (S series), single-intake

Connection diagram



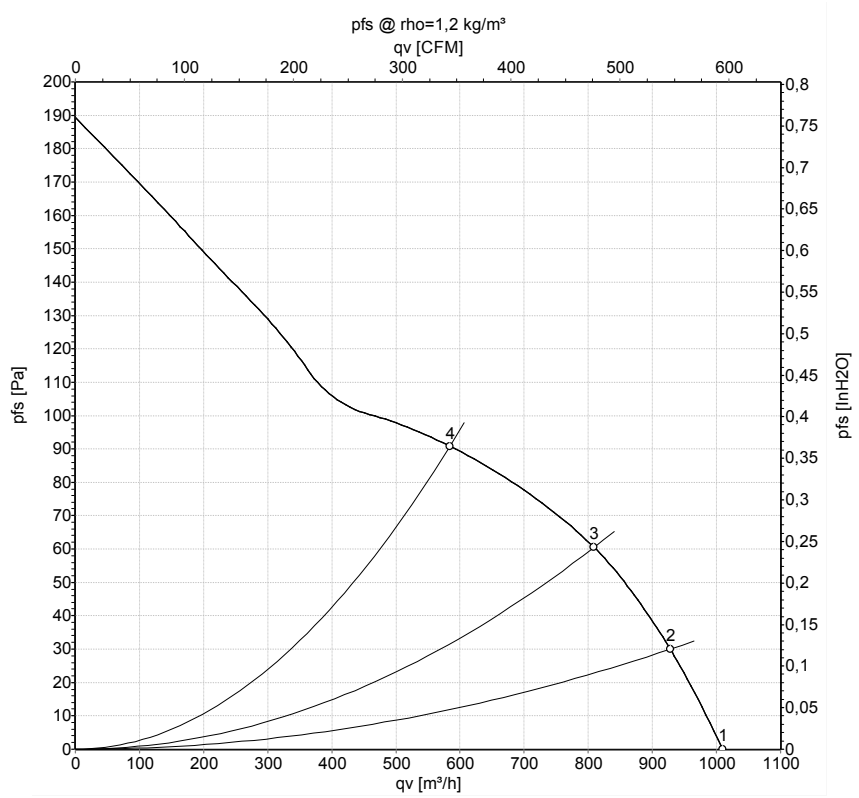
Note: Change of rotation direction by reversing two phases

	Three-phase motor
	Fan connection diagram
Y	Star connection
1	Counterclockwise operation
L1	= V1 = blue
L2	= U1 = black
L3	= W1 = brown
PE	green/yellow
2	Clockwise operation
L1	= U1 = black
L2	= V1 = blue
L3	= W1 = brown
PE	green/yellow
3	Hall IC circuit
3.1	Hall IC
3.2	red (+5 V)
3.3	white (out)
3.4	black (0 V)

AC axial compact fan

sickle-shaped blades (S series), single-intake

Curves: Air performance 60 Hz



Measurement: LU-34214-1

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

	U	f	n	P_e	I	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	440	60	2800	70	0.11	1010	0	595	0.00
2	440	60	2740	75	0.12	930	30	545	0.12
3	440	60	2655	79	0.13	810	60	475	0.24
4	440	60	2580	83	0.13	585	90	345	0.36

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase