

Nominal data

Type	W4E400-FK02-30		
Motor	M4E074-EI		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed (rpm)	min ⁻¹	1430	1660
Power input	W	175	255
Current draw	A	0.78	1.12
Motor capacitor	μF	6	6
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	120	70
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	65	55
Starting current	A	2.25	2

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data in accordance with ecodesign regulation EU 327/2011

		Actual	Request 2015
01 Overall efficiency η_{es}	%	31.3	29.4
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		41.9	40
05 Variable speed drive		No	

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

09 Power input P_e	kW	0.2
09 Air flow q_v	m ³ /h	2745
09 Pressure increase p_{fs}	Pa	86
10 Speed (rpm) n	min ⁻¹	1400
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-201181



Technical features

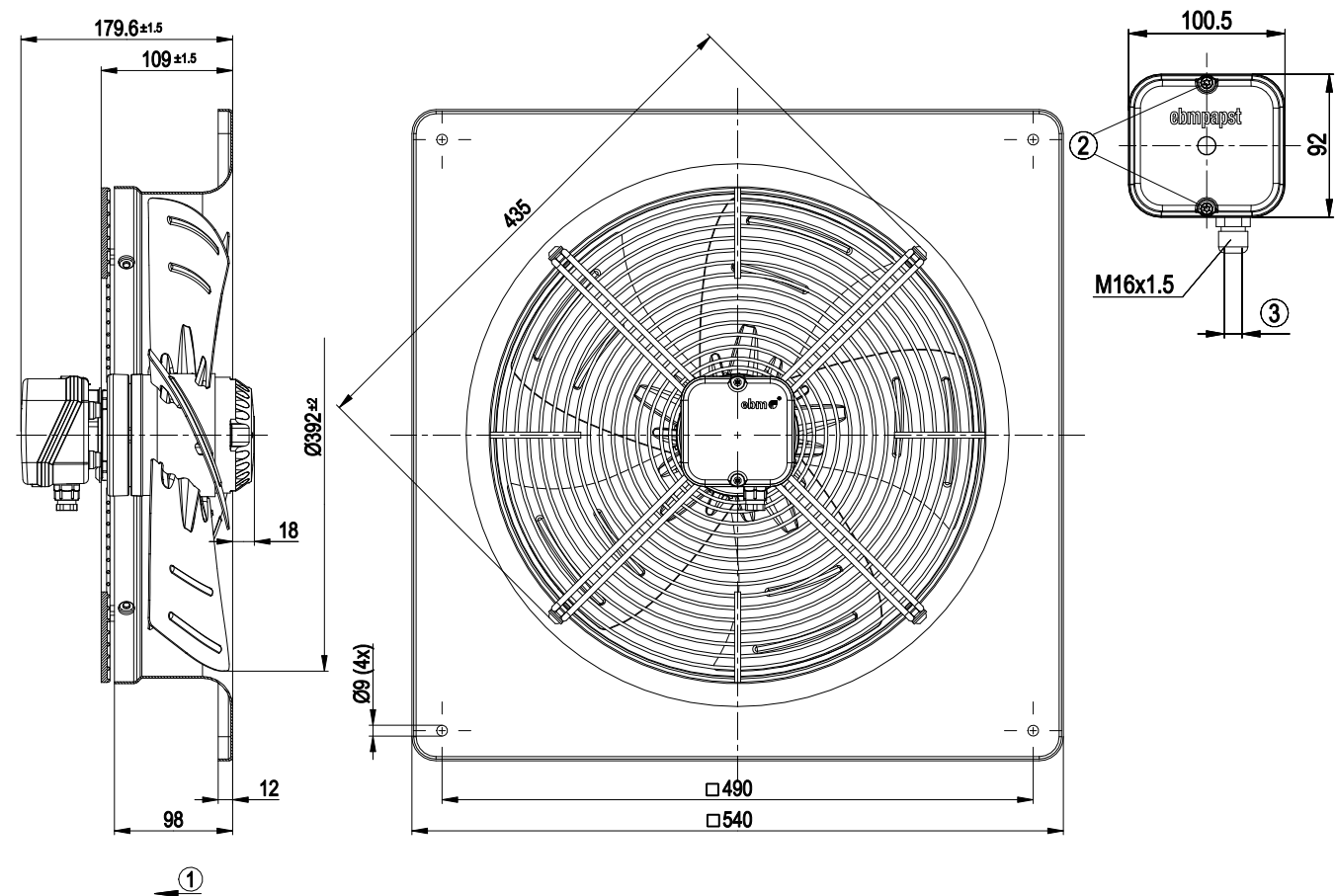
Mass	8.5 kg
Size	400 mm
Motor size	74
Surface of rotor	Coated in black
Material of terminal box	PC / ABS plastic
Material of blades	Sheet steel, coated in black
Material of wall ring	Sheet steel, pre-galvanised and coated with black plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	V
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP54
Insulation class	"F"
Humidity (F) / environmental protection class (H)	H2
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical connection	Terminal box
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Product conforming to standard	EN 60034-1 (2004); CE

AC axial fan

sickled blades (S series)

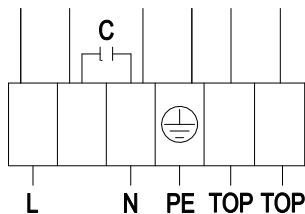
Wall ring with guard grille

Product drawing



1	Direction of air flow "V"
2	Tightening torque 1.5±0.2 Nm
3	Cable diameter max. 10 mm, tightening torque 3±0.4 Nm

Connection screen

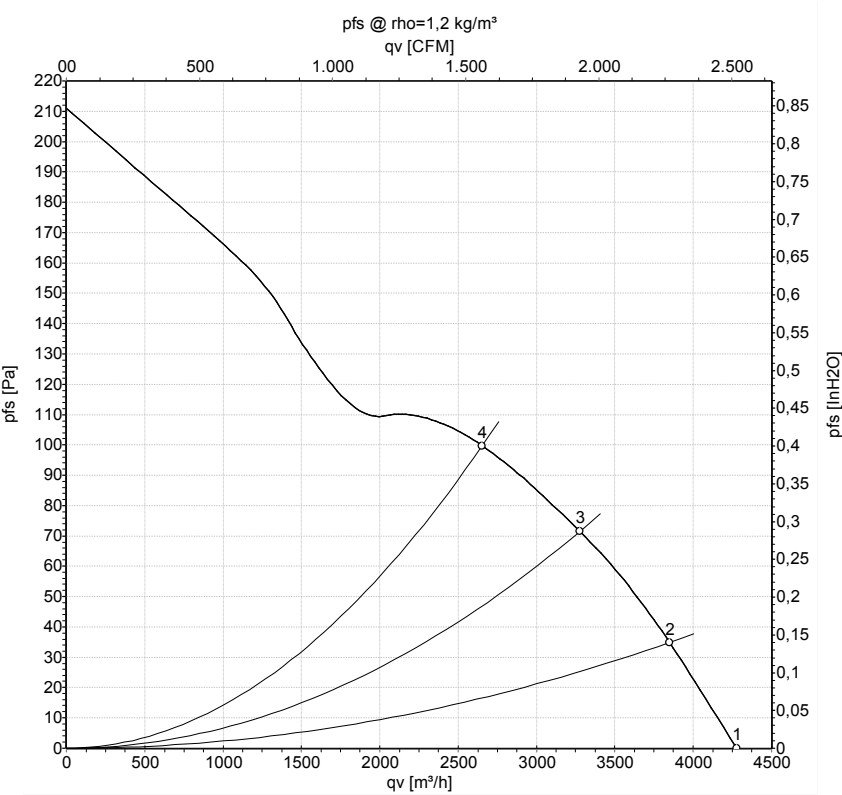


L	blue	N	black	PE	green/yellow
TOP	grey				



AC axial fan
sickled blades (S series)
Wall ring with guard grille

Charts: Air flow 50 Hz



Measurement: LU-55925-1

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

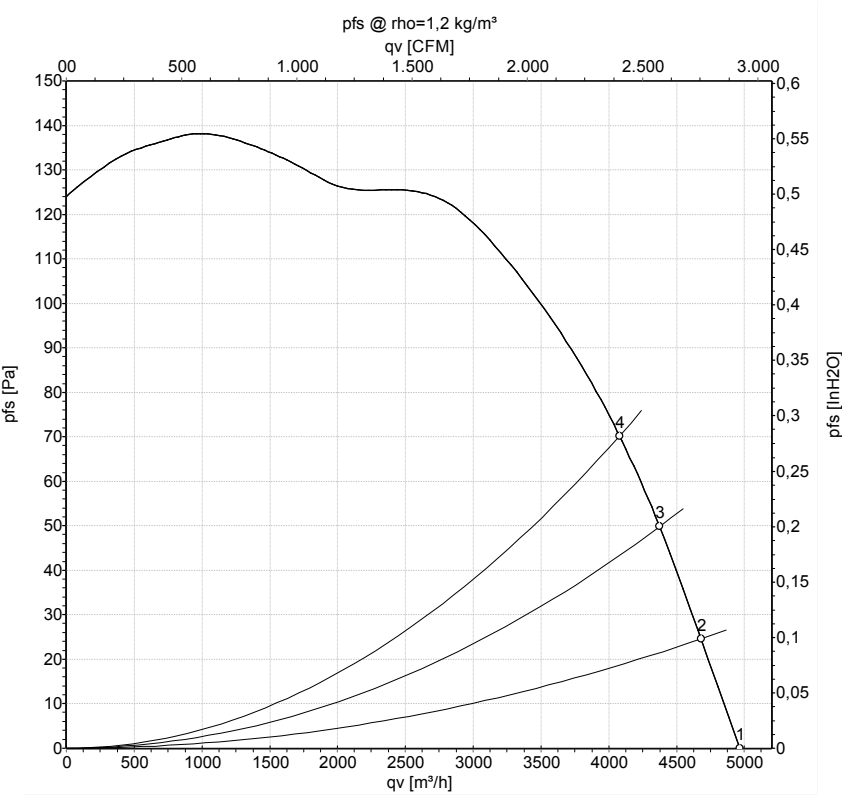
	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	50	1430	175	0.78	4275	0	2515	0.00
2	230	50	1425	186	0.84	3850	35	2265	0.14
3	230	50	1410	203	0.91	3275	72	1930	0.29
4	230	50	1395	220	0.97	2655	100	1560	0.40

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



AC axial fan
sickled blades (S series)
Wall ring with guard grille

Charts: Air flow 60 Hz



Measurement: LU-55926-1

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	60	1660	255	1.12	4965	0	2920	0.00
2	230	60	1660	265	1.17	4680	25	2755	0.10
3	230	60	1640	280	1.23	4375	50	2575	0.20
4	230	60	1620	291	1.27	4080	70	2400	0.28

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

