

# EL 160 E2M 01

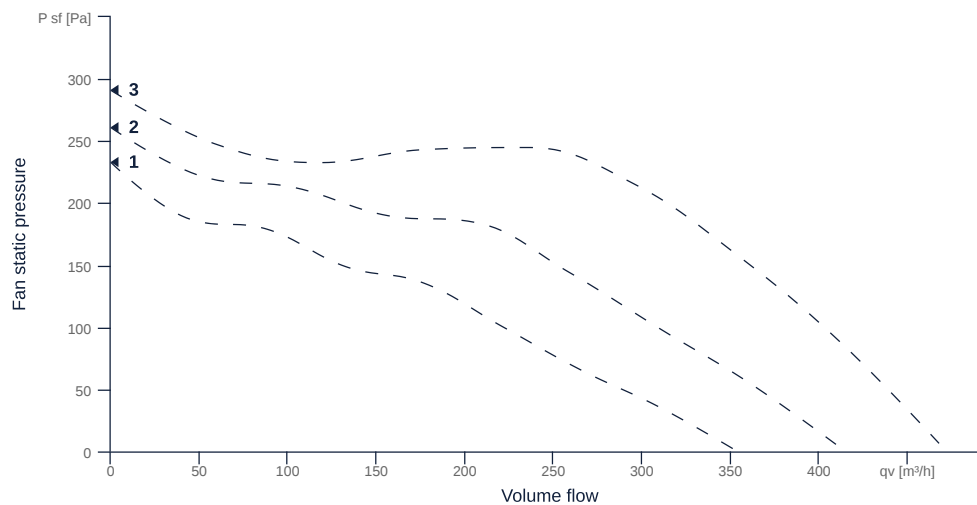
121746

- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust AC motor, 3-steps controllable
- Conveyed medium temperature up to 80 °C in continuous operation
- Housing made of polyamide



## FAN CURVES

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



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## GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxHduct
Pipe connection size (DN)	DN160		DN
Rated voltage (entire device)	230	V	U <sub>rated</sub>
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Plastic		mat <sub>casing</sub>
Impeller material	Plastic		mat <sub>impeller</sub>
IP-protection class (entire device)	IPX4		IP <sub>compl</sub>
Weight	2.2	kg	m
Fan type	Diagonal		Fan <sub>type</sub>
Category / Installation situation	A		cat

## MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	53	W	P <sub>ed, max</sub>
Max. operating current (device)	0.33	A	I <sub>ed, max</sub>
Max. speed	2840	1/min	n <sub>max</sub>
Max. stat. efficiency	31.6	%	η <sub>es</sub>
Max. fan efficiency	32.9	%	η <sub>e</sub>
Max. flowrate	470	m <sup>3</sup> /h	Q <sub>v, max</sub>
Max. stat pressure	290	Pa	p <sub>sf, max</sub>
Max. medium temperature	80	°C	T <sub>m, max</sub>
Max. environment temperature	80	°C	T <sub>amb, max</sub>
Min. environment temperature	-25	°C	T <sub>amb, min</sub>
Min. voltage	230	V	U <sub>min</sub>
Stall current	0.86	A	I <sub>LRA</sub>



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## MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		step-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAI		protectmotor
Protection class		IP00		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		1.5	µF	Ccond
Voltage capacitor		450	V	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		V	Urated, f1
Rated current	0.3		A	Irated, f1
UL-Certification motor		None		ULcert

## ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2701	1/min	n <sub>opt</sub>
Efficiency level	31.8	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.05	kW	P <sub>e, opt</sub>
Overall efficiency	55.8	%	η <sub>ges</sub>
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	220	Pa	p <sub>f, opt</sub>
Flowrate at energy efficiency optimum	288	m³/h	Q <sub>v, opt</sub>



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