

# EM 250 EC 02

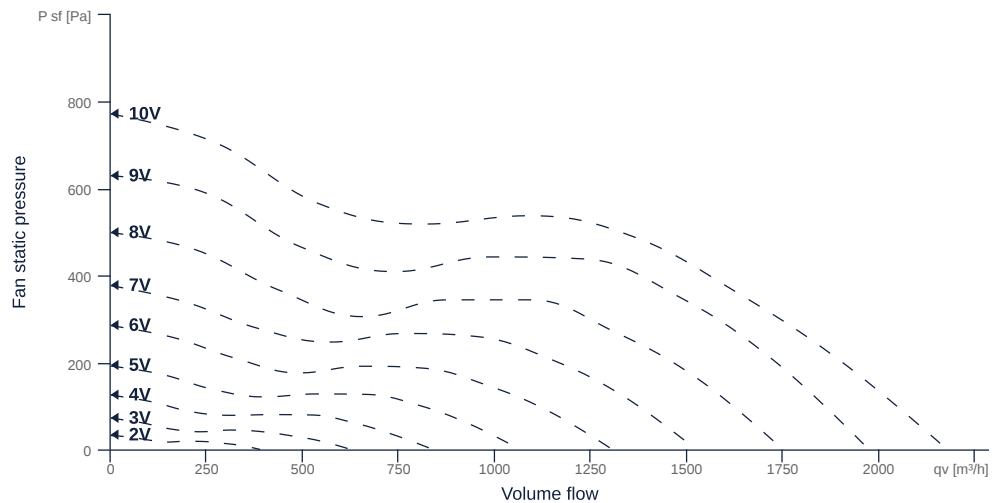
130491

- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- High efficiency IE5 EC motor, steplessly controllable
- Incl. 1x potentiometer for connection in terminal box
- Conveyed medium temperature up to 45 °C in continuous operation
- The benchmark for efficiency since 2012



## 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)	DN250		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>
IP-Protection class (terminal box)	IP44		IP <sub>Ebox</sub>
Weight	4.1	kg	m
Fan type	Diagonal		Fan <sub>type</sub>
Category / Installation situation	A		cat

## MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	304	304	W	P <sub>ed, max</sub>
Max. operating current (device)	2.1	2.1	A	I <sub>ed, max</sub>
Max. speed	3880	3880	1/min	n <sub>max</sub>
Max. stat. efficiency	58	58	%	η <sub>es</sub>
Max. fan efficiency	62.3	62.3	%	η <sub>e</sub>
Max. flowrate	2175	2175	m <sup>3</sup> /h	Q <sub>v, max</sub>
Max. stat pressure	770	770	Pa	p <sub>sf, max</sub>
Max. medium temperature	45	45	°C	T <sub>m, max</sub>
Max. environment temperature	45	45	°C	T <sub>amb, max</sub>
Min. environment temperature	-30	-30	°C	T <sub>amb, min</sub>



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## MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		EC		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TEC		protectmotor
Protection class		IP30		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrSUPmotor
Rated voltage	230	230	V	U <sub>rated, f1</sub>
Rated current	1.9	1.9	A	I <sub>rated, f1</sub>
Shaft power	294	294	W	P <sub>out, f1</sub>
Speed	Speed 3811	3811	1/min	n <sub>f1</sub>
Min. temperature	-30	-30	°C	T <sub>motor, min</sub>
UL-Certification motor		None		ULcert

## ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	3729	1/min	n <sub>opt</sub>
Efficiency level	65.4	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.32	kW	P <sub>e, opt</sub>
Overall efficiency	81.1	%	η <sub>ges</sub>
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	505	Pa	p <sub>f, opt</sub>
Flowrate at energy efficiency optimum	1316	m³/h	Q <sub>v, opt</sub>



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