

EM 250 EC K 01

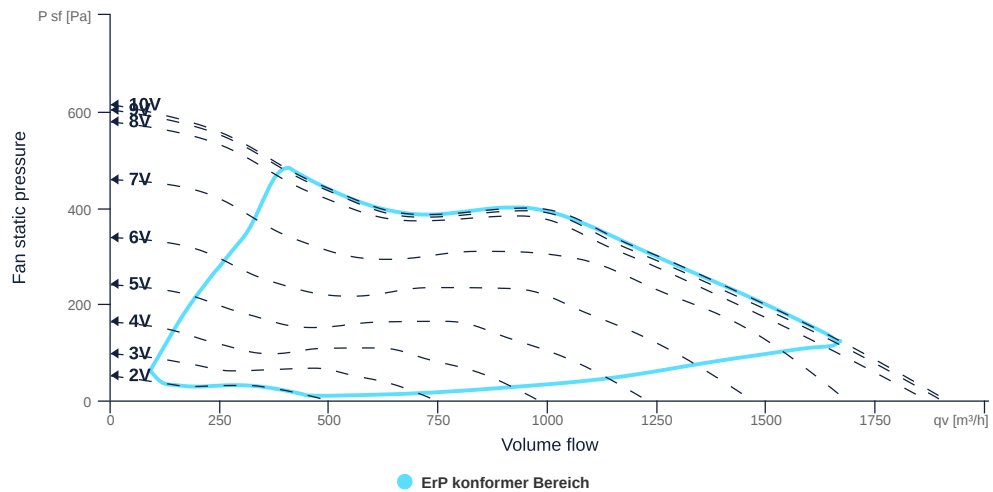
168579

- 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
- 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 _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Plastic		mat _{casing}
Impeller material	Plastic		mat _{impeller}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{Ebox}
Weight	3.16	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	172	172	W	P _{ed, max}
Max. operating current (device)	1.32	1.32	A	I _{ed, max}
Max. speed	3390	3390	1/min	n _{max}
Max. stat. efficiency	63.4	63.4	%	η _{es}
Max. fan efficiency	66.9	66.9	%	η _e
Max. flowrate	1910	1910	m ³ /h	q _{v, max}
Max. stat pressure	610	610	Pa	p _{sf, max}
Max. medium temperature	50	50	°C	T _{m, max}
Max. environment temperature	50	50	°C	T _{amb, max}
Min. environment temperature	-30	-30	°C	T _{amb, min}



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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		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrSUPmotor
Rated voltage	230	230	V	U _{rated, f1}
Rated current	1.42	1.42	A	I _{rated, f1}
Shaft power	189	189	W	P _{out, f1}
Speed	3279	3279	1/min	n _{f1}
Efficiency	52.5	52.5	%	η _{m, f1}
Min. temperature	-30	-30	°C	T _{motor, min}
Cos Phi	0.580000	1.420000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	3152	1/min	n _{opt}
Efficiency level	69.8	%	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.18	kW	P _{e, opt}
Overall efficiency	88.1	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	362	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	1098	m³/h	Q _{v, opt}



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