

ISOR 500 E4 K 01

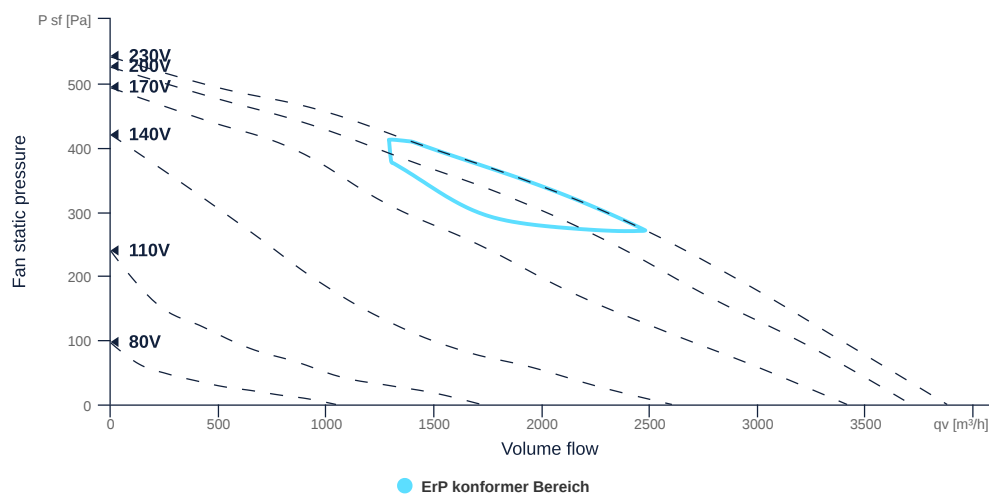
167714

- Soundproof centrifugal fan with backward curved impeller
- Galvanized sheet steel housing
- Connection spigots with double lip seal
- Swing-out fan unit
- Robust single-phase AC motor, voltage controllable
- Integrated thermal switch
- Suitable for outdoor installation



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)	DN500		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		matcasing
Impeller material	Plastic		matimpeller
IP-protection class (entire device)	IP54		IP _{compl}
IP-Protection class (terminal box)	IP66		IP _{ebox}
Weight	69.5	kg	m
Nominal air flow rate, nominal point m ³ /h	2458.8	m ³ /h	q _{v,nom}
Nominal external pressure, static	269	Pa	p _{s,nom}
Fan type	Radial		Fan _{type}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m ³ /s	0.68	m ³ /s	q _{v,nom}
Actual electrical input power, nominal point	0.46	kW	P _{e,nom}
Face velocity, nominal point	3.48	m/s	v _{nom}
Nominal external pressure, static	269	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	47.2	%	η _{es,SUP}
Highest external air leakage rate	0.4	%	
Enclosure sound level, nominal point	67	dba	L _{WA2}
Rating	Product is compliant 2018		



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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	466	648	W	P _{ed, max}
Max. operating current (device)	2.72	3.22	A	I _{ed, max}
Max. speed	1425	1695	1/min	n _{max}
Max. stat. efficiency	40.6	39.4	%	η _{es}
Max. fan efficiency	41.2	40	%	η _e
Max. flowrate	3870	4370	m³/h	q _{v, max}
Max. stat pressure	540	750	Pa	p _{sf, max}
Max. medium temperature	65	60	°C	T _{m, max}
Max. environment temperature	65	60	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	80	V	U _{min}

MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO _{class}
Motor-protection		TAE		protect _{motor}
Protection class		IP54		IP _{motor}
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwr _{sup} _{motor}
Capacity capacitor		9	μF	C _{cond}
Voltage capacitor		400	V	V _{Ucond}
Number of poles (1)		4.000000		num poles _{w1}
Rated voltage	230		V	U _{rated, f1}
Rated current	2.33		A	I _{rated, f1}
Speed	1340		1/min	n _{f1}
Starting current	5.9		A	I _{start, f1}
Min. temperature	-40		°C	T _{motor, min}
UL-Certification motor		None		UL _{cert}



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