

ISOR 160 E2 K 01

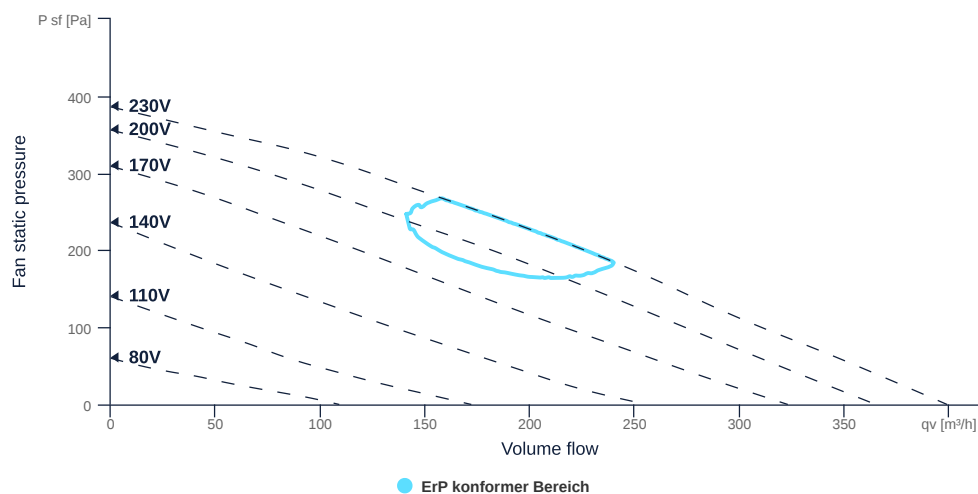
167396

- 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)	DN160		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	11.76	kg	m
Nominal air flow rate, nominal point m ³ /h	248.4	m ³ /h	q _{v,nom}
Nominal external pressure, static	176	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	0.07	m ³ /s	q _{v,nom}
Actual electrical input power, nominal point	0.05	kW	P _{e,nom}
Face velocity, nominal point	3.41	m/s	v _{nom}
Nominal external pressure, static	176	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	29.1	%	η _{es,SUP}
Highest external air leakage rate	1.11	%	
Enclosure sound level, nominal point	54	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)	49	64	W	$P_{ed, max}$
Max. operating current (device)	0.31	0.36	A	$I_{ed, max}$
Max. speed	2630	2915	1/min	n_{max}
Max. stat. efficiency	24.9	22	%	η_{es}
Max. fan efficiency	25.5	22.5	%	η_e
Max. flowrate	400	415	m ³ /h	$q_{v, max}$
Max. stat pressure	390	475	Pa	$p_{sf, max}$
Max. medium temperature	70	70	°C	$T_{m, max}$
Max. environment temperature	70	70	°C	$T_{amb, max}$
Min. environment temperature	-25	-25	°C	$T_{amb, min}$
Min. voltage	80	80	V	U_{min}
Stall current	0.37	0.37	A	I_{LRA}

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		ISOclass
Motor-protection		TMI		protectmotor
Protection class		IP33		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		2	μF	Ccond
Voltage capacitor		400	V	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		V	$U_{rated, f1}$
Rated current	0.23		A	$I_{rated, f1}$
Speed	2373		1/min	n_{f1}
Efficiency	27.7		%	$\eta_{m, f1}$
Min. temperature	-30		°C	$T_{motor, min}$
Cos Phi	0.990000	0.000000		cos φ
UL-Certification motor		None		ULcert



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