

EL 355 E2 01

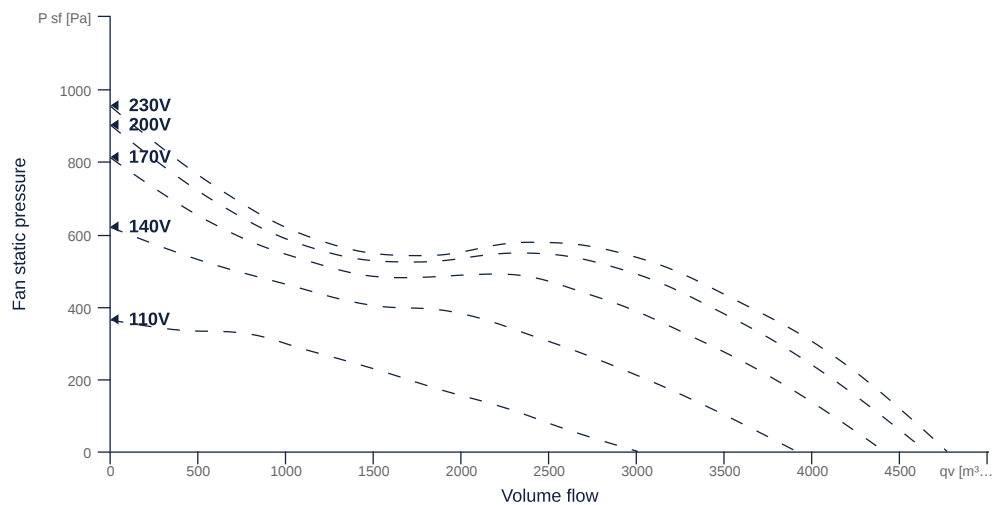
112757

- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust single phase AC motor
- Conveyed medium temperature up to 45 °C in continuous operation
- Housing made of galvanized steel sheet



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)	DN355		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)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	17.01	kg	m
Fan type	Diagonal		Fa _{ntype}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	926	W	P _{ed, max}
Max. operating current (device)	5.1	A	I _{ed, max}
Max. speed	2840	1/min	n _{max}
Max. stat. efficiency	46.3	%	η _{es}
Max. fan efficiency	49.7	%	η _e
Max. flowrate	4770	m ³ /h	Q _{v, max}
Max. stat pressure	950	Pa	p _{sf, max}
Max. medium temperature	45	°C	T _{m, max}
Max. environment temperature	45	°C	T _{amb, max}
Min. environment temperature	-25	°C	T _{amb, min}
Min. voltage	110	V	U _{min}
Stall current	9	A	I _{LRA}



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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		stepless-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TMI		protectmotor
Protection class		IP00		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrSUPmotor
Capacity capacitor		22	µF	Ccond
Voltage capacitor		400	V	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		V	Urated, f1
Rated current	3.5		A	Irated, f1
Shaft power	550		W	Pout, f1
Speed	2800		1/min	n _{f1}
Cos Phi	0.990000	0.000000		cos φ
UL-Certification motor		None		ULcert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	2743	1/min	n _{opt}
Efficiency level	47.1	%	N
Efficiency category	statisch		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	0.92	kW	P _{e, opt}
Overall efficiency	58	%	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	552	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	3027	m ³ /h	Q _{v, opt}



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