

# EL 315 E2 01

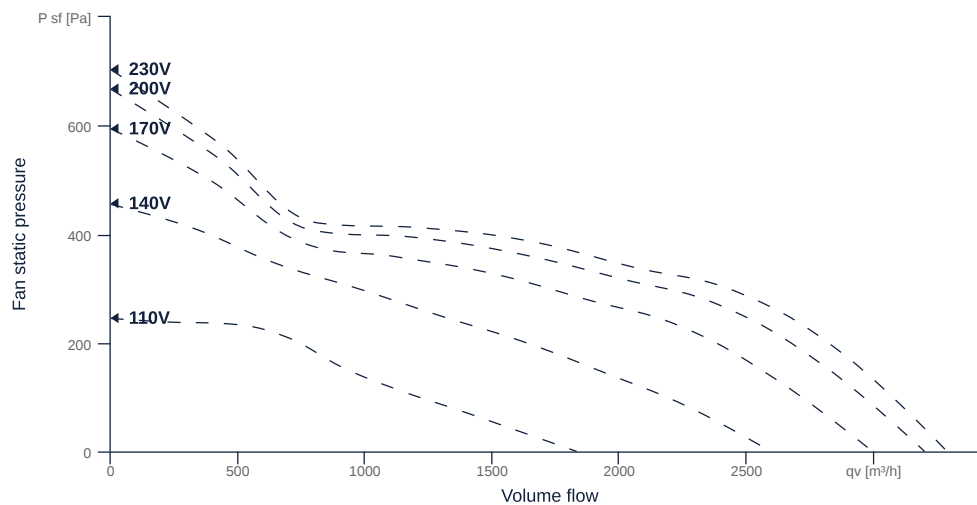
112202

- 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 70 °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	-		WxH <sub>duct</sub>
Pipe connection size (DN)	DN315		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	Galvanized steel		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	15.1	kg	m
Fan type	Diagonal		Fa <sub>type</sub>
Category / Installation situation	A		cat

## MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	509	775	W	P <sub>ed, max</sub>
Max. operating current (device)	3	3.7	A	I <sub>ed, max</sub>
Max. speed	2840	3275	1/min	n <sub>max</sub>
Max. stat. efficiency	39	36.8	%	η <sub>es</sub>
Max. fan efficiency	43.5	39.5	%	η <sub>e</sub>
Max. flowrate	3290	3710	m <sup>3</sup> /h	q <sub>v, max</sub>
Max. stat pressure	700	880	Pa	p <sub>sf, max</sub>
Max. medium temperature	70	45	°C	T <sub>m, max</sub>
Max. environment temperature	70	45	°C	T <sub>amb, max</sub>
Min. environment temperature	-25	-25	°C	T <sub>amb, min</sub>
Min. voltage	110	110	V	U <sub>min</sub>
Stall current	8.5		A	I <sub>LRA</sub>



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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		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrSUPmotor
Capacity capacitor		10	µF	Ccond
Voltage capacitor		400	V	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		V	Urated, f1
Rated current	1.9		A	Irated, f1
Shaft power	300		W	Pout, f1
Speed	2820		1/min	n <sub>f1</sub>
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	2758	1/min	n <sub>opt</sub>
Efficiency level	39.3	%	N
Efficiency category	statisch		cat <sub>efficiency</sub>
Input power of the motor at the energy efficiency optimum	0.47	kW	P <sub>e, opt</sub>
Overall efficiency	53.2	%	η <sub>ges</sub>
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	350	Pa	p <sub>f, opt</sub>
Flowrate at energy efficiency optimum	1993	m <sup>3</sup> /h	Q <sub>v, opt</sub>



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