

# EL 315 D2 01

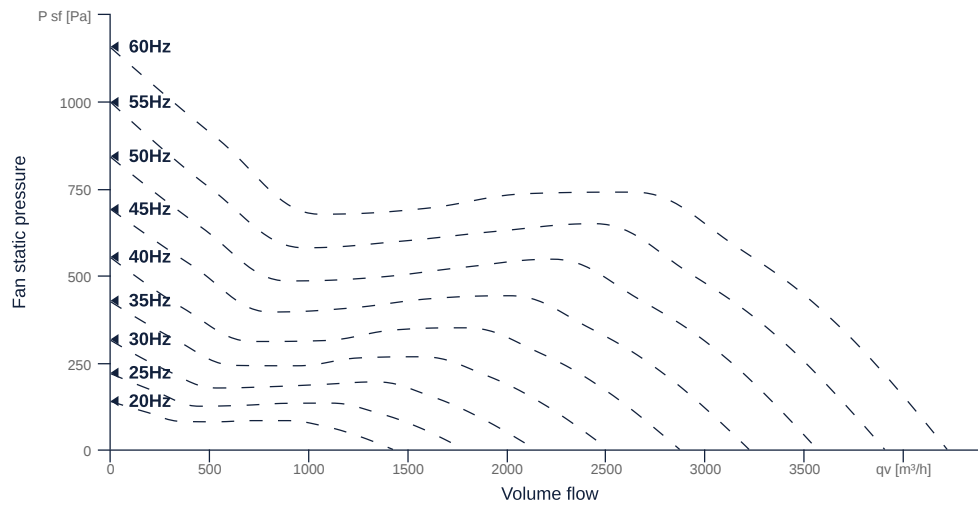
112759

- Innovative, high-efficiency diagonal fan
- The benchmark for efficiency since 2007
- Optimally tuned, CFD-optimized aerodynamics
- Efficient IE3 motor, frequency controllable
- Conveyed medium temperature up to 40 °C in continuous operation
- Housing made of galvanized steel sheet
- Attention! See note in the operating manual at FU-operation



## 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)	DN315		DN
Rated voltage (entire device)	230	V	Urated
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		matcasing
Impeller material	Plastic		matimpeller
IP-protection class (entire device)	IPX4		IPcompl
Weight	15.5	kg	m
Fan type	Diagonal		Fantype
Category / Installation situation	A		cat

## MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	910	W	Ped, max
Max. operating current (device)	2.95	A	Ied, max
Max. speed	3500	1/min	nmax
Max. stat. efficiency	59.8	%	ηes
Max. fan efficiency	64.6	%	ηe
Max. flowrate	4210	m³/h	qv, max
Max. stat pressure	1150	Pa	psf, max
Max. medium temperature	40	°C	Tm, max
Max. environment temperature	40	°C	Tamb, max
Min. environment temperature	-30	°C	Tamb, min



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## MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 3~		phase
Control type		frequency-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAO		protectmotor
Protection class		IP44		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwrSUPmotor
Number of poles (1)		2.000000		num polesw1
Connection	Y			wiringw1
Rated voltage	230		V	U <sub>rated, f1</sub>
Rated current	3.4		A	I <sub>rated, f1</sub>
Shaft power	950		W	P <sub>out, f1</sub>
Speed	2820		1/min	n <sub>f1</sub>
Min. temperature	-30		°C	T <sub>motor, min</sub>
Cos Phi	0.870000	0.000000		cos φ
UL-Certification motor		None		ULcert

## ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	3417	1/min	n <sub>opt</sub>
Efficiency level	63.9	%	N
Efficiency category	statisch		cat <sub>efficiency</sub>
Input power of the motor at the energy efficiency optimum	0.91	kW	P <sub>e, opt</sub>
Overall efficiency	74.9	%	η <sub>ges</sub>
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	718	Pa	p <sub>f, opt</sub>
Flowrate at energy efficiency optimum	2781	m³/h	Q <sub>v, opt</sub>



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