

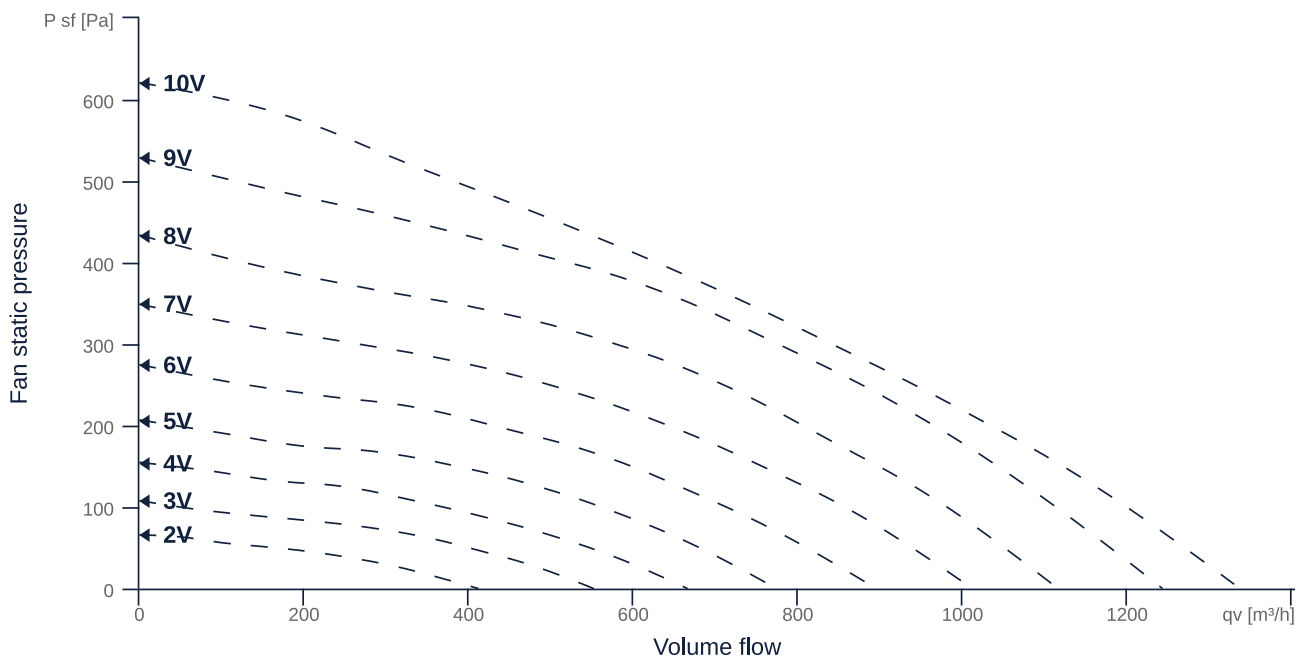
RS 315 EC K 01

159763

- Compact radial fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 50 °C in continuous operation
- Internal electronic temperature monitoring



MAP



GENERAL DATA

Name	Value	Unit	Formula symbol
Duct size	-		WxH _{duct}
Pipe connection size (DN)	DN315		DN
Electrical protection (entire device)	20 A		fuse
Housing material	Steel		mat _{casing}
Impeller material	Plastic		mat _{impeller}
Weight	4.9	kg	m
Nominal air flow rate, nominal point	471.6	m³/s	qv _{nom}
Nominal external pressure, static	76.1	Pa	p _{ext}
Fan type	Radial		Fan _{type}
Category / Installation situation	B		cat
Sound insulation	No		snd _{ins}
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase



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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	160	160	W	$P_{ed, max}$
Max. operating current (device)	1.3	1.3	A	$I_{ed, max}$
Max. speed	2800	2800	1/min	n_{max}
Max. stat. efficiency	42.8	42.8	%	η_{es}
Max. fan efficiency	43.4	43.4	%	η_e
Max. flowrate	1340	1340	m ³ /h	$Q_{v, max}$
Max. stat pressure	620	620	Pa	$p_{st, max}$
Max. medium temperature	50	50	°C	$T_{m, max}$
Max. environment temperature	50	50	°C	$T_{amb, max}$
Min. environment temperature	-30	-30	°C	$T_{amb, min}$

MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)	50.000000			f
Motor type	EC			phase
Control type	stepless-controlled			ctrltype
Installation	ORM (Out)			install
Rotation direction	right			rotation
Isolation class	ISO F			ISOclass
Motor-protection	TEC			protectmotor
Protection class	IP54			IPmotor
Is pole-changeable	No			polexch
Type of power supply	AC 1~			pwrsupmotor
Rated voltage	230		V	$U_{rated, f1}$
Rated current	1.2		A	$I_{rated, f1}$
Shaft power	165		W	$P_{out, f1}$
Speed	2600		1/min	n_{f1}
Efficiency	46.9		%	$\eta_{m, f1}$
Min. temperature	-30		°C	$T_{motor, min}$
Cos Phi	0.600000	0.000000		$\cos \varphi$

PRODUCT INFORMATION

Name	Value	Unit	Formula symbol
Category / Installation situation	B		cat
Fan type	Radial		FanType



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