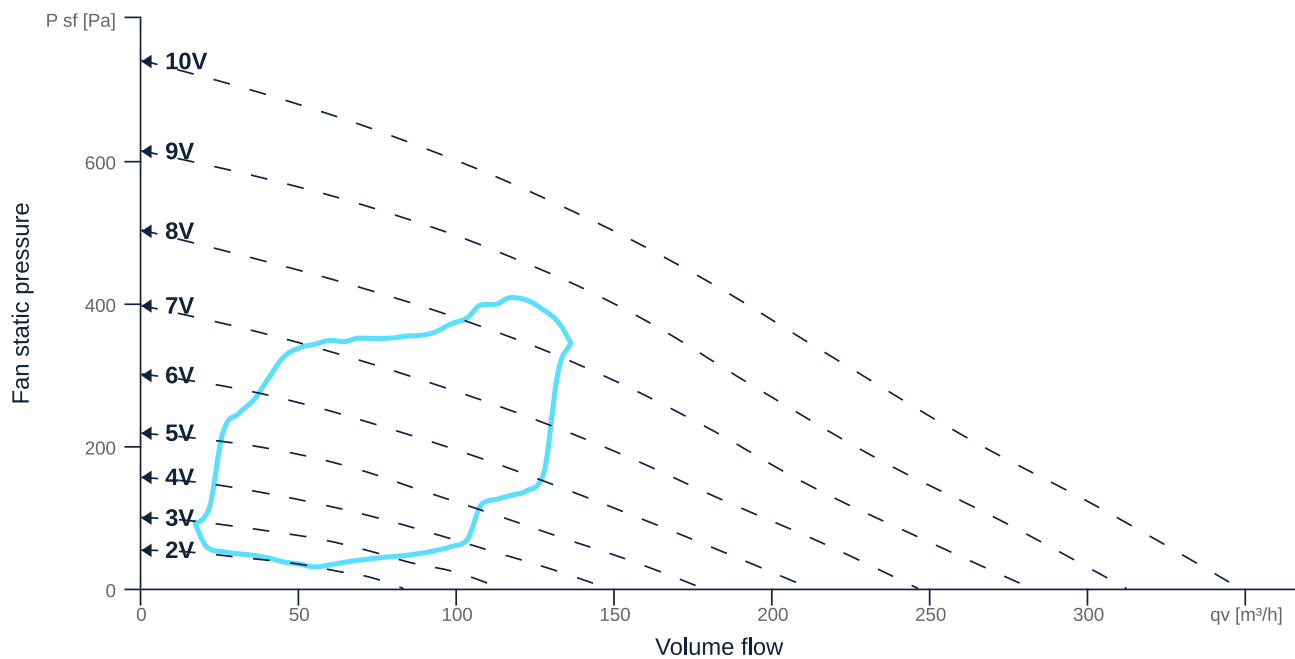# RS 100 EC K 01

154597

- Compact radial fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- High efficiency EC motor, steplessly controllable
- Conveying 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)	DN100		DN
Electrical protection (entire device)	20 A		fuse
Housing material	Steel		mat_{casing}
Impeller material	Plastic		$mat_{impeller}$
Weight	2.66	kg	m
Nominal air flow rate, nominal point m³/h	122.4	m³/s	qv_{nom}
Nominal external pressure, static	455	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 50 Hz	60 Hz	Unit	Formula symbol
Max. power consumption (device)	113	113	W	$P_{ed, max}$
Max. operating current (device)	0.95	0.95	A	$I_{ed, max}$
Max. speed	3970	3970	1/min	n_{max}
Max. stat. efficiency	20.2	20.2	%	η_{es}
Max. fan efficiency	20.5	20.5	%	η_{e}
Max. flowrate	350	350	m³/h	$q_{v, max}$
Max. stat pressure	740	740	Pa	$p_{sf, max}$
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 50 Hz	60 Hz	Unit	Formula symbol
Rated frequency (device)		50.000000		f
Motor type		EC		phase
Control type		stepless-controlled		$ctrl_{type}$
Installation		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISO_{class}
Motor-protection		TEC		$protect_{motor}$
Protection class		IP54		IP_{motor}
Is pole-changeable		No		$pole_{xch}$
Type of power supply		AC 1~		$pwrsup_{motor}$
Min. temperature	-30		°C	$T_{motor, min}$
Cos Phi	0.560000	0.000000		$\cos \varphi$

PRODUCT INFORMATION

Name	Value	Unit	Formula symbol
Category / Installation situation	B		cat
Fan type	Radial		Fan_{type}

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