

RS 100L 20

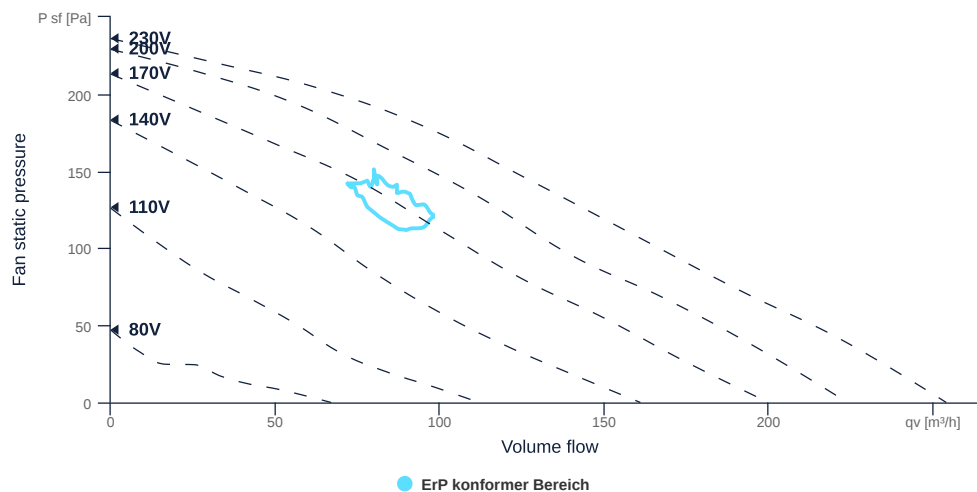
143351

- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Integrated thermal switch



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)	DN100		DN
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Steel		matcasing
Impeller material	Plastic		matimpeller
IP-protection class (casing)	IPX4		IP _{casing}
IP-protection class (entire device)	IPX4		IP _{compl}
IP-Protection class (terminal box)	IP44		IP _{ebox}
Weight	2.77	kg	m
Nominal air flow rate, nominal point m ³ /h	97.2	m ³ /h	q _{v,nom}
Nominal external pressure, static	121.97	Pa	p _{s,nom}
Fan type	Radial		F _{antype}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m ³ /s	0.03	m ³ /s	q _{v,nom}
Actual electrical input power, nominal point	0.02	kW	P _{e,nom}
Face velocity, nominal point	3.47	m/s	v _{nom}
Nominal external pressure, static	121.97	Pa	p _{s,nom}
static efficiency of the extract fan, nominal point	17.28	%	η _{es,EHA}
Highest external air leakage rate	2.24	%	
Enclosure sound level, nominal point	44.1	dba	L _{WA2}
Rating	Product is not compliant		



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MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	28	34	W	$P_{ed, max}$
Max. operating current (device)	0.23	0.26	A	$I_{ed, max}$
Max. speed	2710	3150	1/min	n_{max}
Max. stat. efficiency	17.6	18.6	%	η_{es}
Max. fan efficiency	19.2	19.8	%	η_e
Max. flowrate	250	260	m ³ /h	q_v, max
Max. stat pressure	235	320	Pa	$p_{sf, max}$
Max. medium temperature	60	60	°C	T_m, max
Max. environment temperature	60	60	°C	$T_{amb, max}$
Min. environment temperature	-25	-25	°C	$T_{amb, min}$
Min. voltage	80	80	V	U_{min}
Stall current	0.27	0.27	A	I_{LRA}

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		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAI		protectmotor
Protection class		IP33		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		1.5	μF	Ccond
Voltage capacitor		400	V	VUcond
Number of poles (1)		2.000000		num polesw1
Rated voltage	230		V	$U_{rated, f1}$
Rated current	0.17		A	$I_{rated, f1}$
Shaft power	30		W	$P_{out, f1}$
Speed	2673		1/min	n_{f1}
Min. temperature	-30		°C	$T_{motor, min}$
Cos Phi	0.870000	0.000000		$\cos \varphi$
UL-Certification motor		None		ULcert



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