

D-series

for single phase alternating current, 4 pole

RM50D-4E



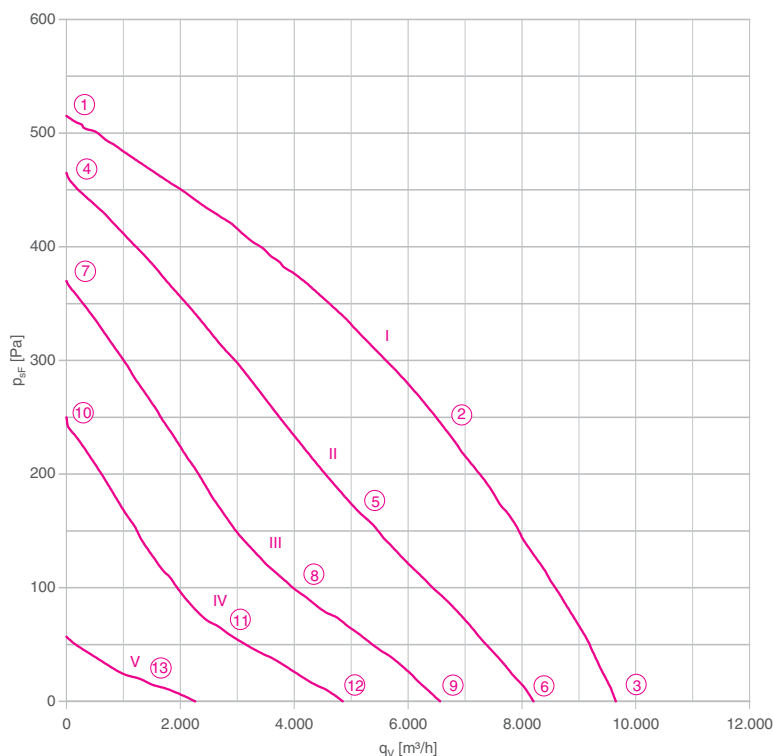
Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 1.45 kW*
Rated current I_N : 6.10 A*
Rated speed n_N : 1310 min⁻¹*
Service capacitor C_{400V} : 30.0 μ F
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -25 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : Aluminium, uncoated
Motor: 1 coat paint, pebble grey
Conformity: ErP 2013, CE

ErP-data

Efficiency η_{statA} : 37.5 %
Efficiency: $N_{actual} = 47.0 / N_{target} = 47$ **
* Rated data
**ErP 2013

Characteristic curve

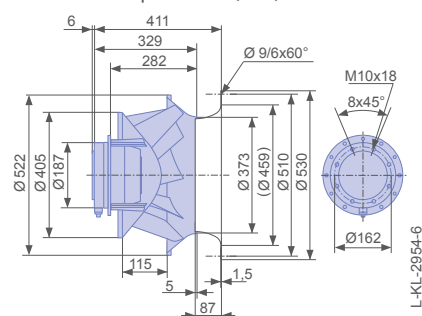


Measured with inlet ring, without guard grille according to ISO 5801

- Inlet ring 00278489 Page 264
- Connection diagram 1360-104XA SW Page 367
- System components Page 262

Dimensions [mm]

Free running motorised impeller RM
in installation position H, Vu, Vo

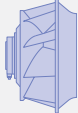


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P ₁ [W]	n [min ⁻¹]	L _{WA5} [dB]
RM50D-4EK.6K.1R	I	230	①	3.90	950	1420	
		230*	②	6.10*	1450*	1310*	80
		230	③	5.50	1300	1350	87
	II	160	④	4.20	740	1330	
		160	⑤	6.60	1100	1070	75
		160	⑥	6.10	1000	1140	82
	III	130	⑦	4.50	620	1190	
		130	⑧	6.20	800	830	68
		130	⑨	6.00	780	910	76
	IV	105	⑩	4.50	470	940	
		105	⑪	5.20	540	630	60
		105	⑫	5.20	530	670	68
	V	60	⑬	3.00	170	310	

*rated data

Fan ordering information

Design	RM
Installation position	H/Vu/Vo
Electrical connection	Supply cable lateral 85cm
	
Type	RM50D-4EK.6K.1R
Article no.	106030
Weight [kg]	21.00
* Inlet ring not included	

Control technology

Frequency inverter Fcontrol 1~  Page 296	Motor protection units 1~  Page 344	Transformer-based controllers 1~  Page 334	Electronic voltage controllers 1~  Page 310
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