

D-series

for three phase alternating current, 4-4 pole

RM500-VD



Description

Motor technology: AC
Rated voltage U_N : 3~ 400 V (Δ/Y) $\pm 10\%$ *
Rated frequency f_N : 50 Hz*
Motor input power P_i : 1.35/0.88 kW*
Rated current I_N : 2.40/1.40 A*
Rated speed n_N : 1320/ 990 min⁻¹*
Starting current I_A : 6.50 A / 1.80 A
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -40 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : Aluminium, uncoated
Motor: 1 coat paint, pebble grey
Conformity: ErP 2013, CE

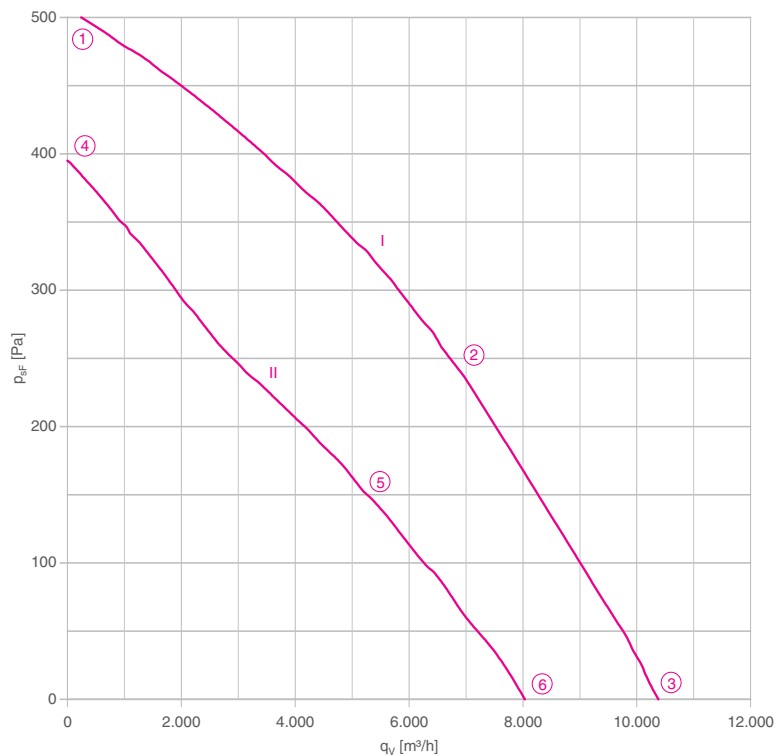
ErP-data

Efficiency η_{statA} : 36.8 %
Efficiency: $N_{actual} = 47.0 / N_{target} = 47^{**}$

* Rated data

**ErP 2013

Characteristic curve

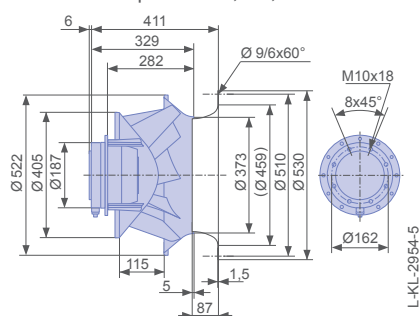


Measured with inlet ring, without guard grille according to ISO 5801

➤ Inlet ring	00278489	Page 264
➤ Connection diagram	1360-108XA SW	Page 367
➤ System components		Page 262

Dimensions [mm]

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

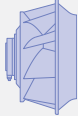


Performance data

Type	Connection	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-VDK.6F.1R	Δ	I	400	①	1.60	780	1410	
			400*	②	2.40*	1350*	1320*	80
			400	③	2.20	1200	1360	87
	Y	II	400	④	0.97	590	1230	
			400*	⑤	1.40*	880*	1020*	74
			400	⑥	1.30	820	1100	81

*rated data

Fan ordering information

Design	RM
Installation position	H/Vu/Vo
Electrical connection	Supply cable lateral 85cm
	
Type	RM50D-VDK.6F.1R
Article no.	106029
Weight [kg]	17.00
* Inlet ring not included	

Control technology

Frequency inverter Fcontrol 3~  ➤ Page 302	Motor protection units 3~  ➤ Page 344	Transformer-based controllers 3~  ➤ Page 334	Electronic voltage controllers 3~  ➤ Page 324
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