

M-series

for three phase alternating current, 2 pole

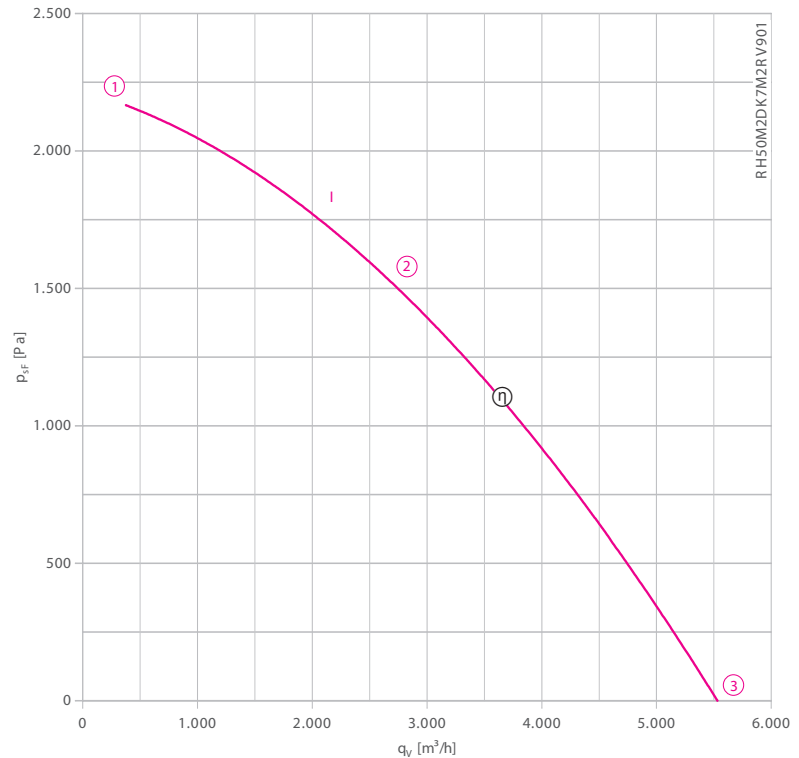
RH50M-2D



Description

Motor technology: AC
Rated voltage U_N : 3~ 230/400 V (Δ/Y) $\pm 10\%$ *
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 2.90 kW*
Rated current I_N : 8.30/4.80 A*
Rated speed n_N : 2750 min⁻¹*
Dynamic pressure: $p_{d2} = 4.7 \cdot 10^{-5} \cdot q_v^2$ [Pa]
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -20 °C
Max. permitted ambient temperature $t_{R(max)}$: 60 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : uncoated
Motor: 1 coat paint, pebble grey
* Rated data

Characteristic curve

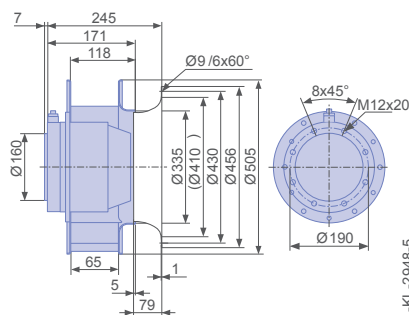


measured with inlet ring, without guard grille according to ISO 5801
not voltage controllable

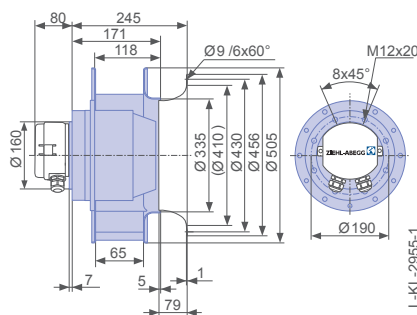
- Inlet ring 00275572 Page 451
- Connection diagram 1360-106XA SW Page 549
- System components Page 448

Dimensions [mm]

Free-running motor impeller RH
in installation position H/Vu/Vo



Free-running motor impeller RH
in installation position H/Vu/Vo

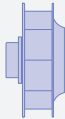


Performance data

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]
RH50M-2DK.7M.2R	I	400	①	4.00	2290	2800	
		400*	②	4.80*	2900*	2750*	89
		400	③	3.20	1670	2850	93

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu/Vo	H/Vu/Vo
Electrical connection	Supply cable lateral 105cm	Terminal box Mounted on motor.
		
Type	RH50M-2DK.7M.2R	RH50M-2DK.7M.2R
Article no.	108120	122257
Weight [kg]	33.60	33.60
* Inlet ring not included		

Control technology

Frequency inverter Fcontrol 3~  ➤ Page 484	Motor protection units 3~  ➤ Page 526	Transformer-based controllers 3~  ➤ Page 521	Electronic voltage controllers 3~  ➤ Page 506
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