

Vpro

for single phase alternating current, 8 pole

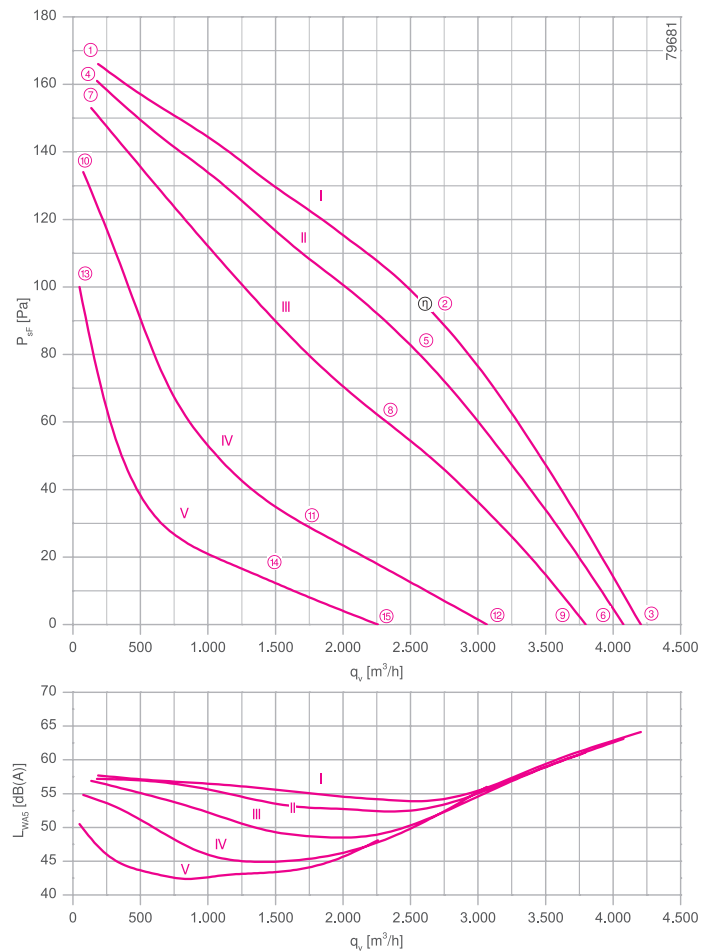
RH50V-8E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 0.21 kW*
Rated current I_N : 0.98 A*
Rated speed n_N : 660 min⁻¹*
Current increase ΔI : 0 %
Service capacitor C_{400V} : 5.0 μ F
Dynamic pressure: $p_{d2} = 9.3 \cdot 10^{-7} \cdot q_v^2$ [Pa]
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -15 °C
Max. permitted ambient temperature $t_{R(max)}$: 60 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : High Performance Composite Material, uncoated, black
Motor: 1 coat paint, pebble grey
* Rated data

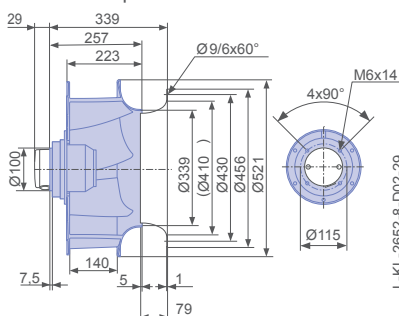
Characteristic curve



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- Connection diagram 1360-104XA SW Page 549
- System components Page 448

Dimensions [mm]

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

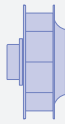


Performance data

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]
RH50V-8EK.4F.1R	I	230	①	0.80	160	700	58
		230*	②	0.98*	210*	660*	54
		230	③	0.88	190	680	64
	II	200	④	0.70	130	690	57
		200	⑤	0.98	180	620	52
		200	⑥	0.82	160	660	63
	III	170	⑦	0.66	110	680	57
		170	⑧	0.98	150	550	48
		170	⑨	0.82	130	620	61
	IV	135	⑩	0.64	80	630	55
		135	⑪	0.92	110	390	45
		135	⑫	0.84	100	500	56
	V	110	⑬	0.64	65	550	51
		110	⑭	0.78	75	300	43
		110	⑮	0.76	75	370	48

*rated data

Fan ordering information

Design	RH*
Installation position	H/Vu/Vo
Electrical connection	Cable box D02 with cable lateral 105cm
	
Type	RH50V-8EK.4F.1R
Article no.	113312
Weight [kg]	10.50
* Inlet ring not included	

Control technology

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Vpro

for three phase alternating current, 4 pole

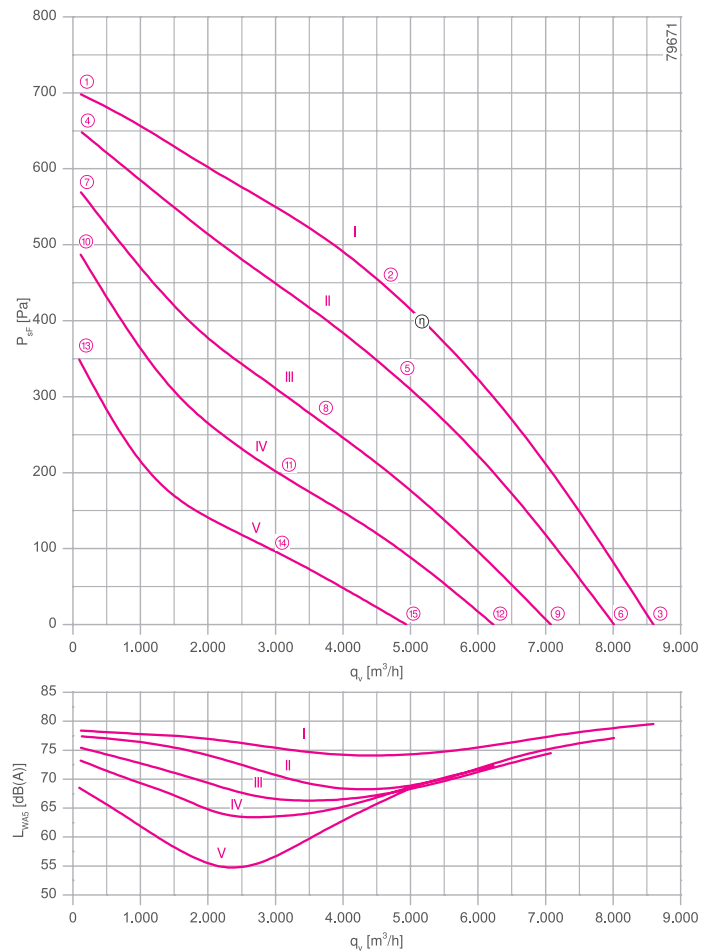
RH50V-4D



Description

Motor technology: AC
Rated voltage U_N : **3~ 230/400 V (Δ/Y) ± 10 %***
Rated frequency f_N : **50 Hz***
Motor input power P_i : **1.20 kW***
Rated current I_N : **3.70/2.10 A***
Rated speed n_N : **1330 min⁻¹***
Starting current I_A : 17.00 A / 9,50 A
Current increase ΔI : 10 %
Dynamic pressure: $p_{a2} = 9.3 \cdot 10^{-7} \cdot v_q^2$ [Pa]
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -15 °C
Max. permitted ambient temperature $t_{R(max)}$: 55 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : High Performance Composite Material, uncoated, black
Motor: 1 coat paint, pebble grey
Conformity: ErP 2013, CE
ErP-Daten
Efficiency η_{IstAtA} : 48.5 %
Efficiency: $N_{actual} = 58.1 / N_{target} = 58^{**}$
* Rated data
**ErP 2013

Characteristic curve

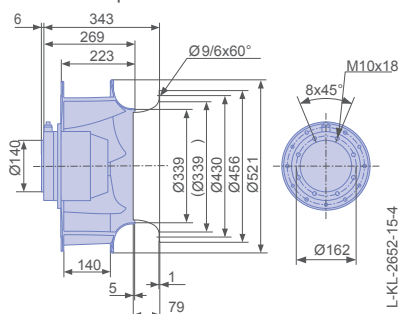


measured with inlet ring, without guard grille according to ISO 5801

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|--------------------|---------------|----------|
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Dimensions [mm]

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



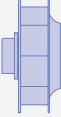
Performance data

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 _{WAS} [dB]
RH50V-4DK.6F.1R	I	400	①	1.60	800	1400	78
		400*	②	2.10*	1200*	1330*	74
		400	③	1.80	960	1370	80
	II	300	④	1.30	540	1370	77
		300	⑤	2.30	1050	1210	69
		300	⑥	1.95	860	1280	77
	III	230	⑦	1.40	480	1280	75
		230	⑧	2.40	820	1040	66
		230	⑨	2.10	720	1140	75
	IV	190	⑩	1.50	420	1190	73
		190	⑪	2.30	640	890	64
		190	⑫	2.10	580	1000	72
	V	145	⑬	1.55	330	1010	69
		145	⑭	2.00	420	710	56
		145	⑮	1.90	400	800	68

*rated data

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Fan ordering information

Design	RH*
Installation position	H/Vu/Vo
Electrical connection	Supply cable lateral 105cm
	
Type	RH50V-4DK.6F.1R
Article no.	113267
Weight [kg]	16.90
* Inlet ring not included	

Control technology

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