

Vpro

for single phase alternating current, 4 pole

RH45V-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 : **0.62 kW***

Rated current I_N : **2.80 A***

Rated speed n_N : **1240 min⁻¹***

Service capacitor C_{400V} : 12.0 μF

Dynamic pressure: $p_{d2} = 1.4 \cdot 10^{-6} \cdot q_v^2$ [Pa]

Thermal class: **THCL155***

Min. permitted ambient temperature $t_{B(min)}$: -15 °C

Max. permitted ambient temperature $t_{R(max)}$: 60°C

Protection class: IP54

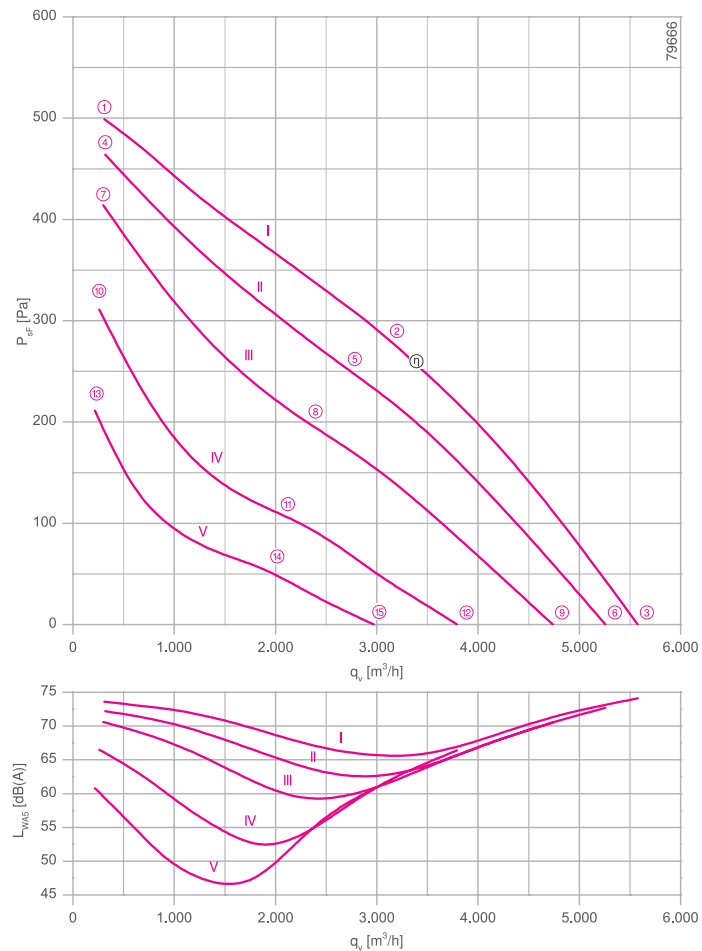
Motor protection: Thermal contact

Impeller : High Performance Composite Material, uncoated, black

Motor: 1 coat paint, pebble grey

* Rated data

Characteristic curve

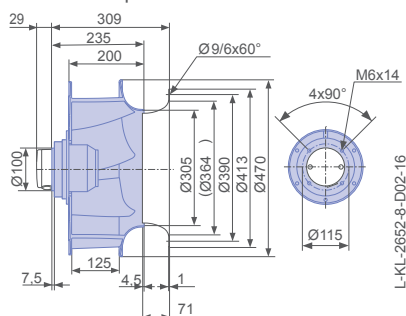


measured with inlet ring, without guard grille according to ISO 5801

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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 _{WA5} [dB]
RH45V-4EK.4I.1R	I	230	①	1.95	420	1360	74
		230*	②	2.80*	620*	1230*	66
		230	③	2.50	540	1290	74
	II	200	④	1.90	370	1310	72
		200	⑤	2.80	540	1140	63
		200	⑥	2.50	480	1220	73
	III	170	⑦	1.95	330	1240	71
		170	⑧	2.80	460	1010	60
		170	⑨	2.50	420	1100	71
	IV	135	⑩	2.10	270	1080	67
		135	⑪	2.60	330	780	53
		135	⑫	2.50	310	890	66
	V	110	⑬	2.00	210	880	61
		110	⑭	2.30	230	610	47
		110	⑮	2.20	230	700	61

*rated data

Fan ordering information

Design	RH*
Installation position	H/Vu/Vo
Electrical connection	Cable box D02 with cable lateral 105cm
	
Type	RH45V-4EK.4I.1R
Article no.	113308
Weight [kg]	11.10
* Inlet ring not included	

Control technology

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for single phase alternating current, 4 pole

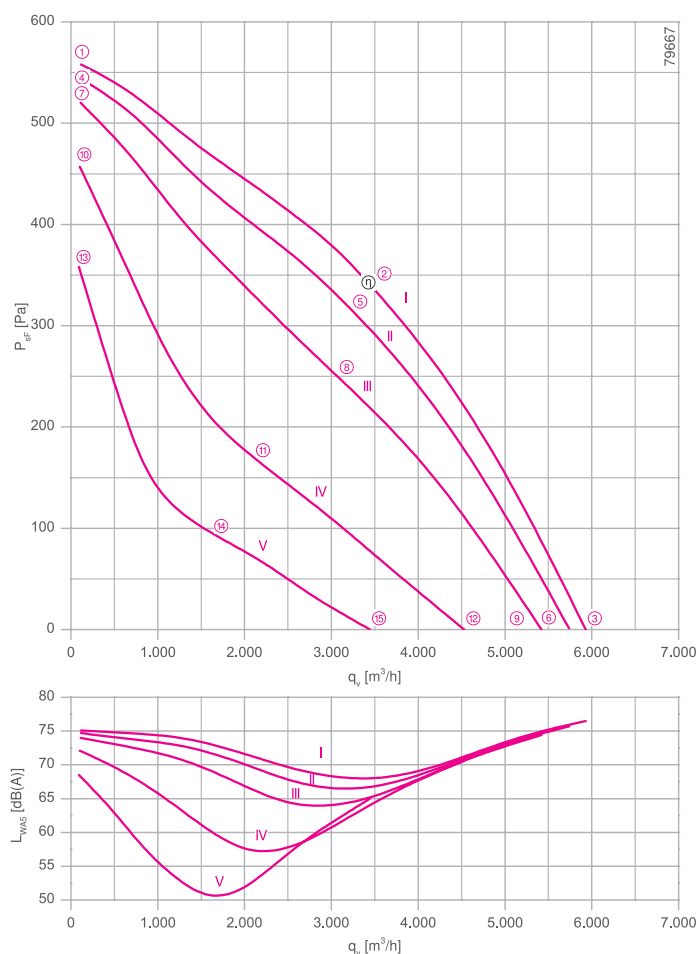
RH45V-4E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz* (60Hz data available)
Motor input power P_1 : 0.76 kW*
Rated current I_N : 3.60 A*
Rated speed n_N : 1340 min⁻¹*
Current increase ΔI : 5 %
Service capacitor C_{400V} : 20.0 μ F
Dynamic pressure: $p_{d2} = 1.4 \cdot 10^{-6} \cdot q_v^2$ [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

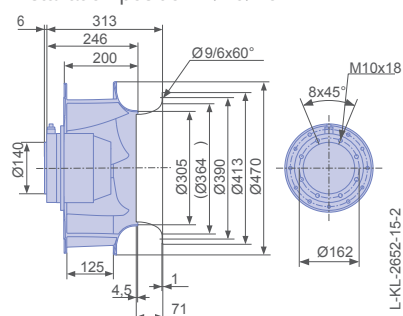


measured with inlet ring, without guard grille according to ISO 5801

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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 _{WA5} [dB]
RH45V-4EK.6F.1R	I	230	①	2.50	480	1430	75
		230*	②	3.60*	760*	1340*	68
		230	③	3.20	660	1380	77
	II	200	④	2.20	420	1410	75
		200	⑤	3.60	680	1280	67
		200	⑥	3.10	600	1340	76
	III	170	⑦	2.20	370	1380	74
		170	⑧	3.70	600	1170	64
		170	⑨	3.20	520	1260	74
	IV	135	⑩	2.30	310	1290	72
		135	⑪	3.60	440	910	57
		135	⑫	3.30	420	1060	71
	V	110	⑬	2.40	260	1140	69
		110	⑭	3.20	300	690	51
		110	⑮	3.10	290	810	65

*rated data

Fan ordering information

Design RH*

Installation position H/Vu/Vo

Electrical connection Supply cable lateral
105cm



Type **RH45V-4EK.6F.1R**
Article no. **113378**

Weight [kg] 16.00
* Inlet ring not included

Control technology

Frequency inverter
Fcontrol 1~



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Motor protection units
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Transformer-based
controllers 1~



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Electronic voltage
controllers 1~



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Information

Cpro-ECblue

Vpro-ECblue

Vpro

L-series

M-series

System components

Control technology

General notes

Vpro

for single phase alternating current, 4 pole

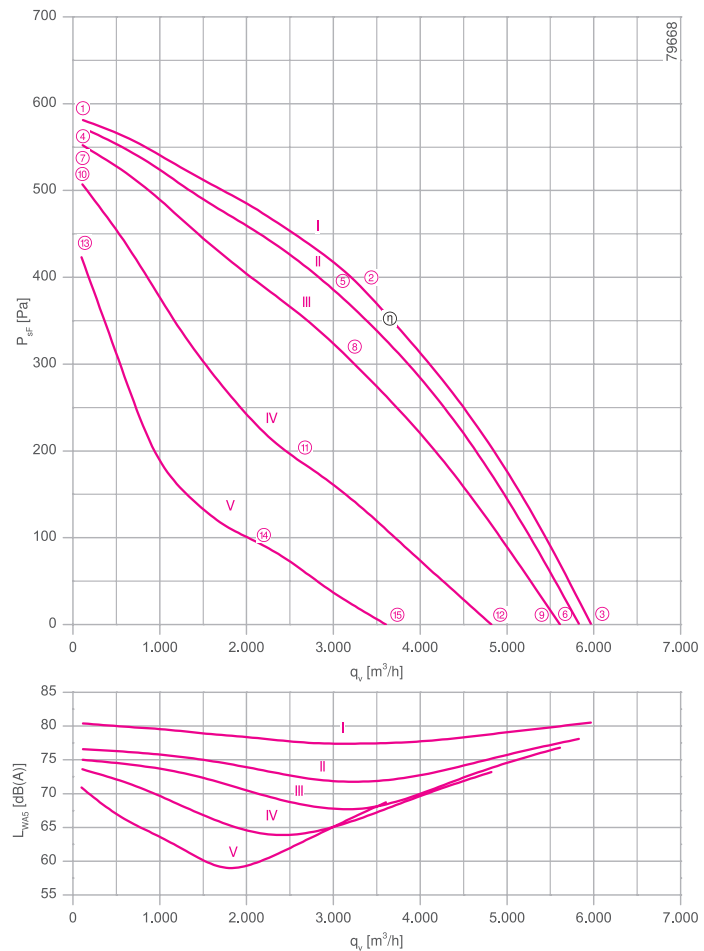
RH45V-4E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz* (60Hz data available)
Motor input power P_1 : 0.80 kW*
Rated current I_N : 3.60 A*
Rated speed n_N : 1400 min⁻¹*
Current increase ΔI : 20 %
Service capacitor C_{400V} : 20.0 μ F
Dynamic pressure: $p_{d2} = 1.4 \cdot 10^{-6} \cdot q_v^2$ [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
Conformity: ErP 2013, CE
ErP-Daten
Efficiency η_{statA} : 46.4 %
Efficiency: $N_{actual} = 58.0 / N_{target} = 58$ **
* Rated data
**ErP 2013

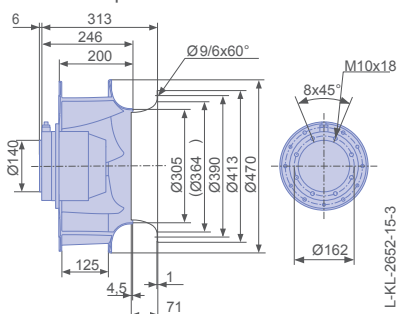
Characteristic curve



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Dimensions [mm]

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

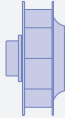


Performance data

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 _{WA5} [dB]
RH45V-4EK.6K.1R	I	230	①	2.20	460	1450	80
		230*	②	3.60*	800*	1400*	77
		230	③	3.20	680	1420	81
	II	200	④	2.10	420	1440	77
		200	⑤	3.80	740	1360	72
		200	⑥	3.30	640	1390	78
	III	170	⑦	2.20	380	1420	75
		170	⑧	4.20	680	1280	68
		170	⑨	3.60	600	1340	77
	IV	135	⑩	2.50	330	1360	74
		135	⑪	4.80	560	1020	64
		135	⑫	4.20	520	1150	73
	V	110	⑬	2.90	300	1240	71
		110	⑭	4.40	400	800	61
		110	⑮	4.20	390	870	69

*rated data

Fan ordering information

Design	RH*
Installation position	H/Vu/Vo
Electrical connection	Supply cable lateral 105cm
	
Type	RH45V-4EK.6K.1R
Article no.	113379
Weight [kg]	19.80
* Inlet ring not included	

Control technology

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