FE2owlet-ECblue

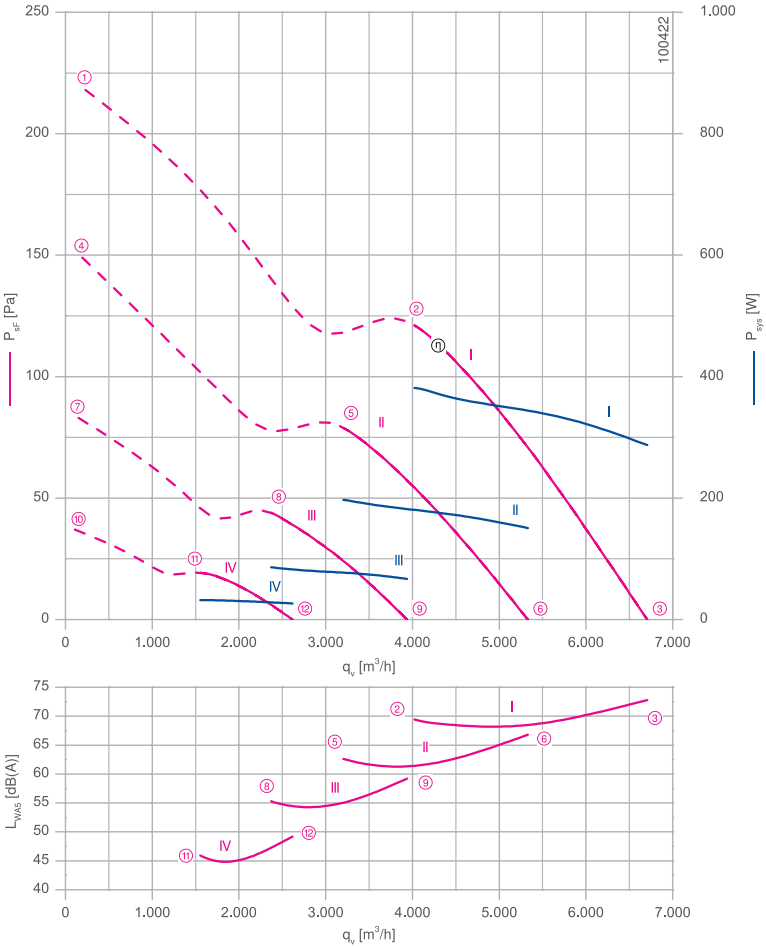
for single phase alternating current, 200-277 V

FN050

Description

Motor technology: EC
Rated voltage U_N: **1~ 200-277 V***
Rated frequency f_N: **50/60 Hz***
Input power P_{sys}: **380 W***
Rated current I_N: **1.95- 1.40 A***
Rated speed n_N: **1120 min^{-1}***
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -35 °C
Max. permitted ambient temperature $t_{R(max)}$: 60 °C
Electrical connection: integrated Controller
Number of blades: 7
Protection class: IP54
Motor protection: Integrated active temperature management
Blades: High Performance Composite Material, uncoated, black
Rotor: Steel, 2 coat paint, ultramarine blue
Conformity: ErP 2015, CE
ErP-data
Efficiency η_{statA}: 41.7 %
Efficiency: N_{actual} = 50.8 / N_{target} = 40**
EC controller integrated
* Rated data
**ErP 2015

Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

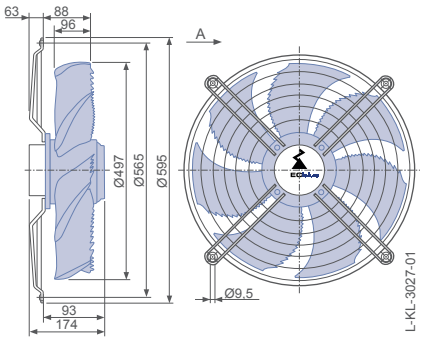
Connection diagram Page 529
1360-384

System components Page 430

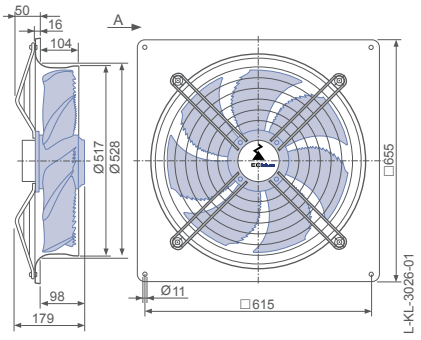
Dimensions mm

Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side

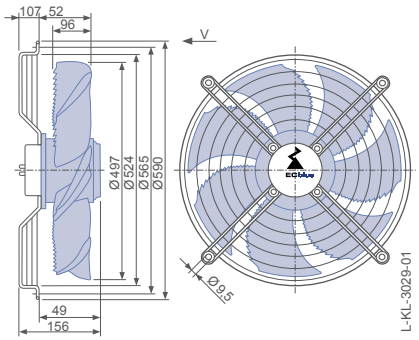


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side

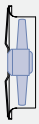


Performance data

Type	Characteristic curve	Speed n min⁻¹	Operating point	Current I A	Input power P_{sys} W	Suction side sound power level L_{WA5} dB(A)
FN050-6I_.BD._7P2	I	1120	①	2.00	460	
			②	1.70	380	69
			③	1.25	290	73
	II	900	④	1.15	260	
			⑤	0.86	200	63
			⑥	0.68	150	67
	III	670	⑦	0.50	110	
			⑧	0.40	85	55
			⑨	0.32	65	59
	IV	450	⑩	0.22	40	
			⑪	0.19	32	46
			⑫	0.17	26	49

Current values determined at 230V

Fan ordering information

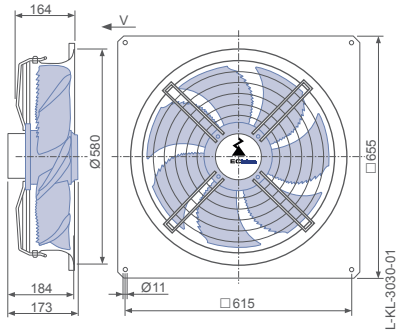
Airflow direction A			Airflow direction V	
Design	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
				
Type	**FN050-6IW.BD.A7P2**	**FN050-6IQ.BD.A7P2**	**FN050-6IK.BD.V7P2**	**FN050-6IQ.BD.V7P2**
Article no.	**162127**	**162126**	**162145**	**162146**
Weight kg	9.40	15.80	9.50	14.30

Control technology

Control modules

Page 452

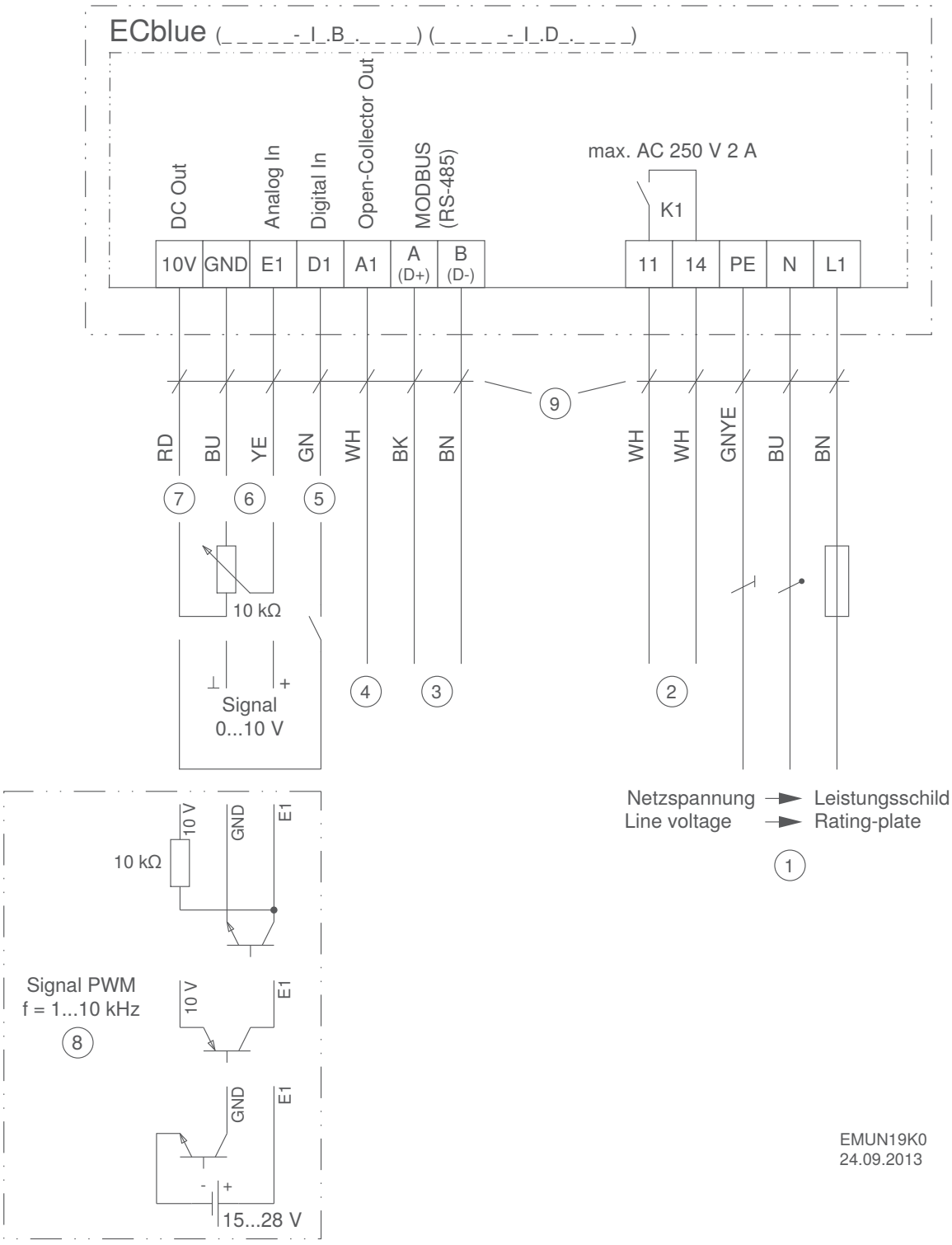
Design Q - square full bell mouth, guard grille pressure side



Connection diagrams

EC-Technology

1360-384 (EC090)



① Line voltage see rating-plate
② Relay output for fault indication (max. contact rating AC 250 V 2 A)
③ MODBUS (RS-485) interface
④ Open-Collector output status / tacho
⑤ Digital input for enable
⑥ Input for setting speed by 0...10 V signal / potentiometer (R_i > 100 kΩ)
⑦ Voltage supply 10 V DC (I_{max} 50 mA)
⑧ Setting speed by PWM signal (f = 1...10 kHz)
⑨ Version with connection cables