



Image is for illustrative purposes only. Actual product may vary.

### Nominal data

<b>Model</b>	<b>BL-F108A-EC-00</b>	
<b>Motor model</b>	<b>MEC3E-72-95-00</b>	

<b>Phase</b>		1~
<b>Nominal Voltage</b>	VAC	230
<b>Nominal voltage range</b>	VAC	184~276
<b>Frequency</b>	Hz	50/60

<b>Speed</b>	RPM	3550
<b>Power consumption</b>	W	80
<b>Current draw</b>	A	0.66
<b>Min. ambient temperature</b>	°C	-25
<b>Max. ambient temperature</b>	°C	+50

Power and current values represent maximum ratings; speed values are specified at maximum efficiency point.

## Technical Data

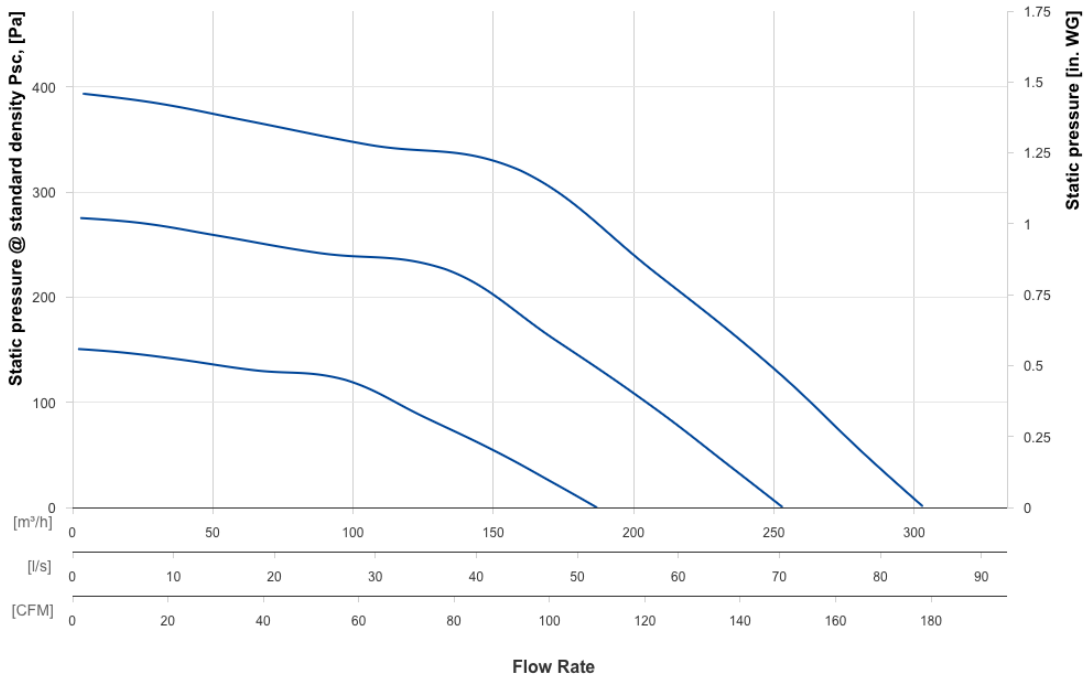
<b>Weight</b>	1 kg
<b>Impeller size</b>	108 mm
<b>Impeller material</b>	Galvanized steel
<b>Number of blades</b>	34
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Motor size</b>	72
<b>Bearing type</b>	Ball bearings
<b>Insulation class</b>	B
<b>Degree of protection</b>	IP55
<b>Motor protection</b>	Self-resetting TOP wired internally
<b>Operation mode</b>	Continuous duty (S1)
<b>Installation position</b>	Any
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	-40 °C
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+80 °C
<b>Cable length</b>	500 ±20 mm
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Output 10 VDC, Max. 10 mA</li> <li>- Control Input 0-10 VDC / PWM</li> <li>- Locked Rotor Protection</li> <li>- Thermal Protection</li> <li>- Excessive Voltage Protection</li> <li>- Less Voltage Protection</li> <li>- Overcurrent Protection</li> <li>- Soft Start</li> </ul>
<b>Conformity with standards</b>	<ul style="list-style-type: none"> <li>- Safety standards: EN 60335-1, EN 60335-2-80</li> <li>- Electromagnetic compatibility: EN IEC 61000-3-2, EN 61000-3-3, EN IEC 61000-6-1, EN IEC 61000-6-3, EN IEC 55014-1, EN IEC 55014-2</li> <li>- EU compliance: CE, RoHS, REACH</li> <li>- Quality certification: ISO 9001</li> </ul>
<b>Warranty period</b>	2 years / 40 000 motor hours

## Connection diagram

	Designation	Color	Function / assignment
<b>Line 1 - Power connections</b>	PE	Green/Yellow	Protective Earth
	L	Brown	Power supply, live wire see nameplate for voltage range
	N	Blue	Power supply, neutral wire see nameplate for voltage range

	Designation	Color	Purpose / Function
<b>Line 2 - Control connections</b>	+10V DC	Red	Fixed voltage output 10 VDC ±5%, max. 10mA, power supply for external devices (e.g. potentiometers), SELV
	Speed Control	Yellow	0-10V/PWM (max. amplitude of PWM 10V) control input, SELV
	Signal Feedback	White	Tach output, 2 pulse per revolution (pulses can be customized, or changed to RD signal), SELV
	GND	Blue	Reference ground for control interface, SELV

CAUTION: incorrect connection may lead to product malfunction or permanent damage.

**Curves: Air performance 50 Hz**


V	U, V	P, W	I, A	n, min <sup>-1</sup>	Psc, Pa	Psc, in.WG	Q, L/s	Q, m³/h	Q, CFM	W/(l/s)
10V	230	80,2	0,66	3328	1,6	0,01	84,1	302,8	178,1	0,95
10V	230	74,6	0,62	3362	49,4	0,20	78,6	282,8	166,3	0,95
10V	230	66,4	0,56	3416	132,3	0,53	69,4	249,9	146,9	0,96
10V	230	56,6	0,49	3422	222,2	0,89	57,9	208,3	122,5	0,98
8V	230	48,2	0,43	2774	0,8	0,00	70,2	252,8	148,7	0,69
8V	230	44,8	0,40	2736	37,2	0,15	65,4	235,3	138,4	0,69
8V	230	40,3	0,37	2882	94,9	0,38	57,6	207,2	121,8	0,70
8V	230	34,8	0,32	2874	158,4	0,64	47,9	172,6	101,5	0,73
6V	230	21,9	0,22	2122	0,2	0,00	51,9	186,7	109,8	0,42
6V	230	20,6	0,21	2142	21,7	0,09	47,9	172,5	101,4	0,43
6V	230	18,6	0,19	2152	52,8	0,21	42,0	151,2	88,9	0,44
6V	230	16,2	0,17	2202	85,7	0,34	34,9	125,6	73,9	0,46