EC axial fans - HyBlade®

Sickled blades (S series) with full square nozzle, Ø 710

Highlights:

– 5-blade fan, 3-phase fan motor

– 10 VDC max. output / 10 mA, 20 VDC max. output / 50 mA, 0-10 V slave output, 24 V external program input, 0-10 VDC / PWM control input, 0-10 V or 4-20 mA sensor input, external release input

– Integrated PID controller, control interface with SELV potential safely disconnected from the mains, RS485 MODBUS RTU technology

– Over-temperature protected electronics / motor, alarm relay

– Soft start, PFC passive, line undervoltage / phase failure detection

Material: Grill guard: Steel, coated in black plastic
Wall ring: Sheet steel, pre-galvanised and black powder paint
Blades: Aluminum sheet insert, sprayed with PP plastic
Electronic enclosure: Die-cast aluminum, coated in black

Mounting position: Shaft horizontal or rotor on bottom; rotor on top on request

Condensate discharge holes: Rotor-side

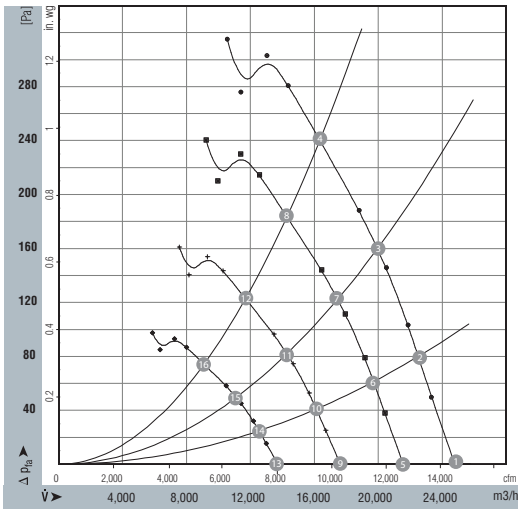
Direction of rotation: Clockwise, seen on rotor

Nominal Data

Type	Motor	Air flow CFM	Nominal voltage range VAC	Frequency Hz	Power input (1) Watts	Speed (1) RPM	Current draw (1) A	Temperature range (1) °C	Mass lbs	Ingress protection rating	Electrical wiring diagram	UL
W3G710-GU30-19F	**M3G150-IF**	14,600	200...240	50/60	2,815	1,230	7.7	-25...60	94	IP54	A	Yes
W3G710-GU21-09F	**M3G150-IF**	14,600	380...480	50/60	2,830	1,250	3.7	-25...60	94	IP54	A	Yes

(1) Nominal data at maximum load.

Curves



Measurement: LU-120948

Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact.

Suction-side noise levels: L_WA as per ISO 13347, L_PA measured at 1m distance to fan axis.

The acoustic values given are valid under the measuring conditions mentioned and may vary accoring to the actual installation situation.

With any deviation to the standard set-up, the specific values have to be checked and reviewed once installed or fitted.

For detailed information on the measuring set-up, please contact ebm-papst.

	n rpm	Pe W	I A (460V)	I A (230V)	L_WA_{in} dB(A)
1	1250	2227	3.4	6.8	79
2	1250	2420	3.7	7.4	79
3	1250	2649	4.0	8.0	79
4	1250	2830	4.3	4.6	83
5	1100	1465	2.2	4.4	76
6	1100	1624	2.5	5.0	76
7	1100	1775	2.7	5.4	76
8	1100	1884	2.9	5.8	80
9	900	802	1.2	2.4	72
10	900	890	1.4	2.8	72
11	900	972	1.5	3.0	72
12	900	1032	1.6	3.2	75
13	700	378	0.6	1.2	66
14	700	418	0.6	1.2	66
15	700	457	0.7	1.4	67
16	700	486	0.7	1.4	70

W3G710-GUXX-XXF with full square nozzle

Dimensions shown in inches (mm)