

HYB60A05(A), HYB60A12(A) BRUSHLESS, HIGH RELIABILITY FAN

AUTOMOTIVE FAN





SHAPE AND DIMENSION

1.5 51.5 130 Lead wire AWG#28 blk-GND, red=+VCC (yel=Pulse) 2x2.8 2x2.8



PERFORMANCE

CE		HYB60A05(A)	HYB60A12(A)	
Operating Voltage	[V]	4.5 5.0 5.5	10.8 12 13.8	
Operating Current	[mA]	190	90	
Max. Start Current	[mA]	330	200	
Max. Air Flow	[l/min - m ³ /h]	130 – 7.80	132 – 7.92 10.2 – 100	
Max. Air Pressure	[mmH ₂ O - Pa]	10.0 - 98.5		
Noise @ 1m (typ.)	[dB(A)]	32	32	
Operating Temperature	[°C]	-10/+70 (80)		
Rotor Speed	[RPM]	3750	3800	
Life Expectancy @20°c	[L ₁₀ /MTBF; h]	75000/225000		
Bearing System		ball bearing ZZ		
Weight	[g]	22		
Pulse (HYB60AxxA only)		2 pulses / rev.	2 pulses / rev.	
Packing Quantity	[PCs]	50-500		

This **SEPA**® turbo fan is suitable for industrial use and has a remarkable air flow performance despite its extremely small dimensions. Due to the linear air performance characteristic, the fan is applicable for different uses. Air intake could be on top or bottom, the outlet is on one side. It is permanently protected electrically against reverse polarity, blocking and thermal overloading. Due to the low rotor weight and precision balancing, it is virtually vibration-free. It is also insensitive to shock.

Further features of this fan are its extremely robust and torsionally rigid housing made from BPT with 30% fibreglass and aluminium base plate, ball bearings with narrow tolerances, of special steel, polyester-based PCB (UL E44247) and absolute reliability due to 100% burn-in.

Technical changes without notice • 08/06



• Alarm Signal (Optional)

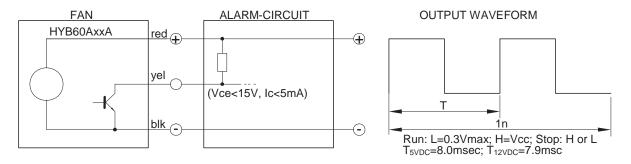
The **SEPA**® HYB60AxxA include a speed impulse output, which enables monitoring the correct function of the fan. An alarm-board is available on request.

The pulse is like a rectangular wave, the frequency correlates to 2 x rotor speed. At blocked rotor the output signal could be L (\leq 0.3V) or H (Vcc).

<u>IMPORTANT:</u> The pulse output is *not* protected against short circuit and must not connect to GND or Vcc without series-resistor. A pull-up-resistor is permitted.

Do not connect pulse output wire to GND or Vcc (insolate).

The HYB60Axx(A) have tinned lead wire ends (without connector).



IMPORTANT: Do not touch the impeller!

• Accessories:

CONNECTOR on request

• Order information:

HYB60A05	SEPA fan, 60x60x12.5mm, 5VDC, ball bearing, CE	116011000
HYB60A05A	SEPA fan, 65x60x12.5mm, 5VDC, pulse, ball bearing, CE	116011010
HYB60A12	SEPA fan, 60x60x12.5mm, 12VDC, ball bearing, CE	116012000
HYB60A12A	SEPA fan, 65x60x12.5mm, 12VDC, pulse, ball bearing, CE	116012010