

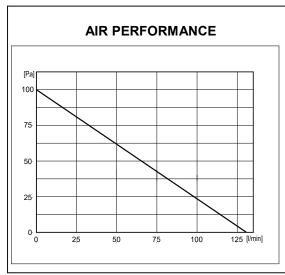
HYB60A Series HIGH PERFORMANCE FAN

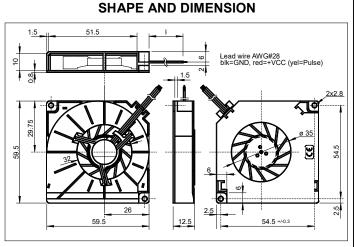












PERFORMANCE

CE		HYB60A05-001 HYB60A05A-003	HYB60A12-001 HYB60A12A-001	
Operating voltage	[VDC]	4.5 5 5.5	10.8 12 13.8	
Typ. operating current	[mA]	220	90	
Max. start current	[mA]	400	200	
Max. air flow	[l/min-m ³ /h]	130 – 7.8	132 – 7.9	
Max. pressure	[Pa-mmH ² O]	93 – 9.5	100 – 10.2	
Typ. noise (1m dist. from air intake side)	[dB(A)]	33	34	
Typ. rotor speed	[RPM]	3700	3800	
Wire Length	[mm]	250±15	130±8	
FG (A)	[PPR]	2	2	
Operating temperature	[°C]	-10 +80		
Life expectancy L10/MTBF@ 40°C	[h]	70000/550000		
Bearing system		2 ball bearings ZZ		
Weight	[g]	22		
Standard packing quantity	[Pcs.]	50-100-500		

This SEPA® high-tech miniature fan is suitable for industrial use and has a remarkable air flow performance despite its small dimensions. Thanks to the extremely low power input, this fan is highly suitable for battery-operated devices. 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 stiff housing of PBT GV, ball bearing with narrow tolerances, of special steel, polyester-based PCB and absolute reliability.

Technical changes without notice • 03/19



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• ALARM SIGNAL

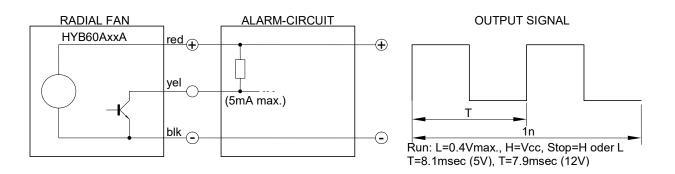
The SEPA® fans HYB60AxxA include a pulse output, which allows monitoring the correct function of the fan.

The pulse is like a rectangular wave, the frequency correlates to 2x rotor speed. The amplitude appears periodically. At blocked rotor the output signal could be L (≤0,4V) or H (Vcc).

IMPORTANT: The pulse output is not protected against short circuit and must not connect to GND or Vcc without preresistor. A pull-up-resistor is needed. Do not connect not used pulse output (insolate).

The fans HYB60Axxx have tinned lead wire ends (without connector).

Do not touch the rotor! Please note the handling specification!



• ACCESSORIES:

Connector: on request

• ORDER INFORMATION (Delivery time on request)

HYB60A05-001	SEPA® Radial fan, 60x60x12.5mm, 5VDC, ball bearings, CE	116011000
HYB60A05A-003	SEPA® Radial fan, 60x60x12.5mm, 5VDC, ball bearings, FG, CE	116011010
HYB60A12-001	SEPA® Radial fan, 60x60x12.5mm, 12VDC, ball bearings, CE	116012000
HYB60A12A-001	SEPA® Radial fan, 60x60x12.5mm, 12VDC, ball bearings, FG, CE	116012010

SEPA® is the brand name for fans and CPU-cooler, made by Nippon Keiki Works LTD., Tokyo

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