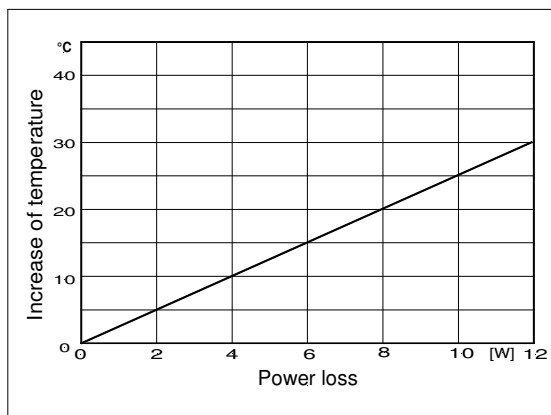


HFB44B05A, HFB44B12A

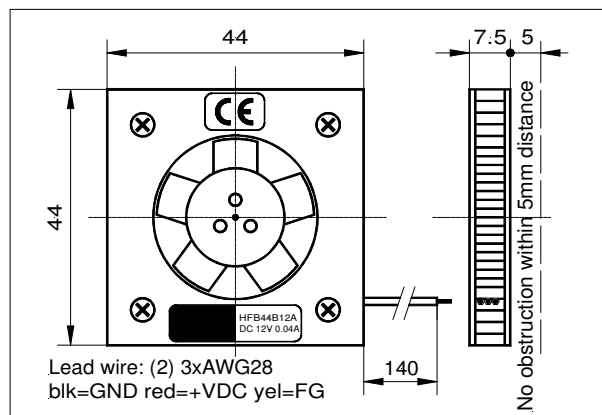
ACTIVE COOLER



COOLING PERFORMANCE



SHAPE AND DIMENSION



PERFORMANCE

CE	HFB44B05 HFB44B05A		HFB44B12 HFB44B12A	
	Operating voltage	[VDC]		4.5 ... 5 ... 5.5
Typ. operating current	[mA]		60	
Max. start current	[mA]		130	
Typ. thermal resistance	[K/W]		2.0	
Typ. noise (1m from air intake side)	[dB(A)]		28	
Typ. rotor speed	[RPM]		8000	
FG (...A)	[PPR]		3	
Operating temperature	[°C]		-40 ... +80 (85, 1h max.)	
Life expectancy L10/MTBF@ 40°C	[h]		70000/350000	
Bearing system			Ball bearings ZZ	
Weight	[g]		7	
Standard packing quantity	[Pcs.]		50-100-500	

This frameless **SEPA**[®] high-tech miniature cooler is suitable for industrial or automotive 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 Aluminum, ball bearing with narrow tolerances, of special steel, polyester-based PCB and absolute reliability due to a 100% burn-in.

Technical changes without notice • 04/15

HFB44B05A, HFB44B12A

ACTIVE COOLER



• ALARM SIGNAL

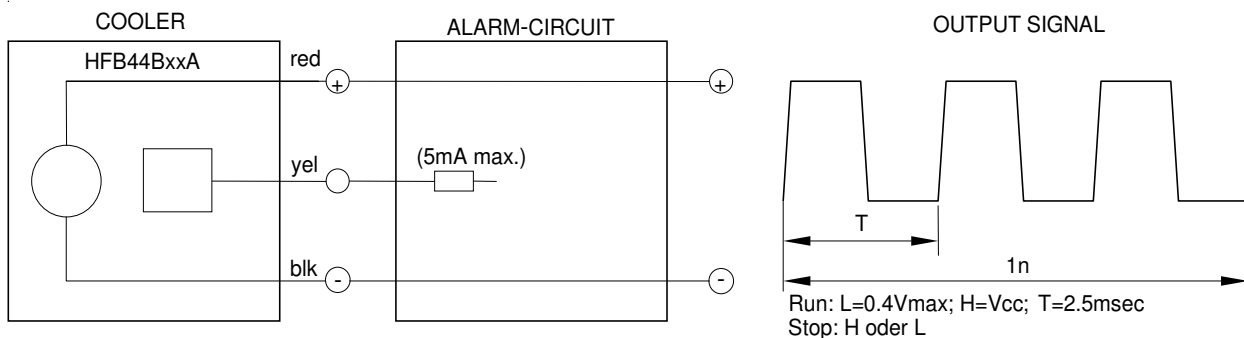
The **SEPA**® fans HFB44BxxA include a pulse output, which allows monitoring the correct function of the fan.

The pulse is like a rectangular wave, the frequency correlates to 3x rotor speed. The amplitude appears periodically. At blocked rotor the output signal could be L ($\leq 0,4V$) or H (V_{cc}).

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

The fans HFB44Bxxx have tinned lead wire ends (without connector).

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



• ACCESSORIES:

Connector: on request

Mounting part: TCT42, HERNON 746-SET

• ORDER INFORMATION (Delivery time on request)

HFB44B05	SEPA ® Chip cooler, 44x44x7.5mm, 5VDC, Ball bearing, CE ,	on request
HFB44B05A	SEPA ® Chip cooler, 44x44x7.5mm, 5VDC, Ball bearing, FG, CE ,	514421010
HFB44B12	SEPA ® Chip cooler, 44x44x7.5mm, 12VDC, Ball bearing, CE ,	on request
HFB44B12A	SEPA ® Chip cooler, 44x44x7.5mm, 12VDC, Ball bearing, FG, CE ,	514442010

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

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