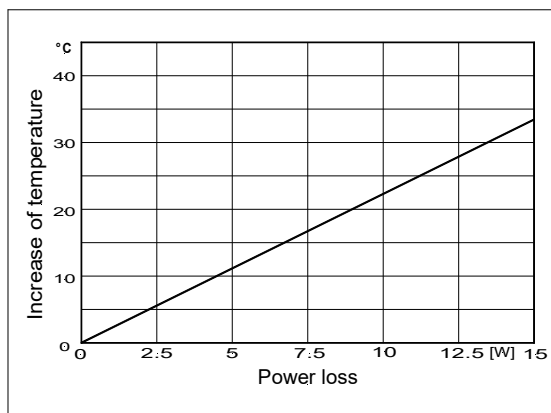


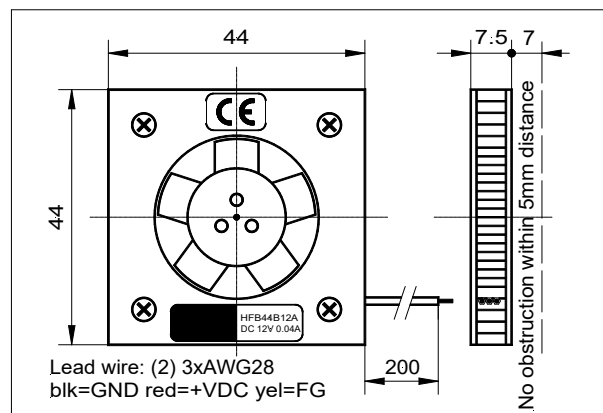
HFB44B Series ACTIVE COOLERS



COOLING PERFORMANCE



SHAPE AND DIMENSION



PERFORMANCE

| CE | | HFB44B05A-002E | HFB44B12A-006 |
|--------------------------------------|---------|-------------------|----------------------|
| Operating voltage | [VDC] | 4.5 ... 5 ... 5.5 | 10.2 ... 12 ... 13.8 |
| Typ. operating current | [mA] | 60 | 30 |
| Max. start current | [mA] | 130 | 70 |
| Typ. thermal resistance | [K/W] | 2.2 | |
| Typ. noise (1m from air intake side) | [dB(A)] | 28 | |
| Typ. rotor speed | [RPM] | 8000 | |
| FG (...A) | [PPR] | 3 | |
| Operating temperature | [°C] | -40 ... +80 | |
| Motor protection | | Impedance | |
| Life expectancy L10/MTBF@ 40°C | [h] | 70000/550000 | |
| Bearing system | | Ball bearings ZZ | |
| Weight | [g] | 7 | |
| Standard packing quantity | [Pcs.] | 50-100-500 | |

These frameless **SEPA**[®] high-tech miniature coolers are suitable for industrial or automotive use and have a remarkable air flow performance despite its small dimensions. Thanks to the extremely low power input, these coolers are highly suitable for battery-operated devices. They are permanently electrically protected against reverse polarity, blocking and thermal overloading. Due to the low rotor weight and precision balancing, they are virtually vibration-free. They are also insensitive to shock.

Further features of these coolers are the extremely robust and torsion stiffness, housing of Aluminum, ball bearing with narrow tolerances and of special steel, polyester-based PCB and absolute reliability.

HFB44B Series ACTIVE COOLERS



• ALARM SIGNAL

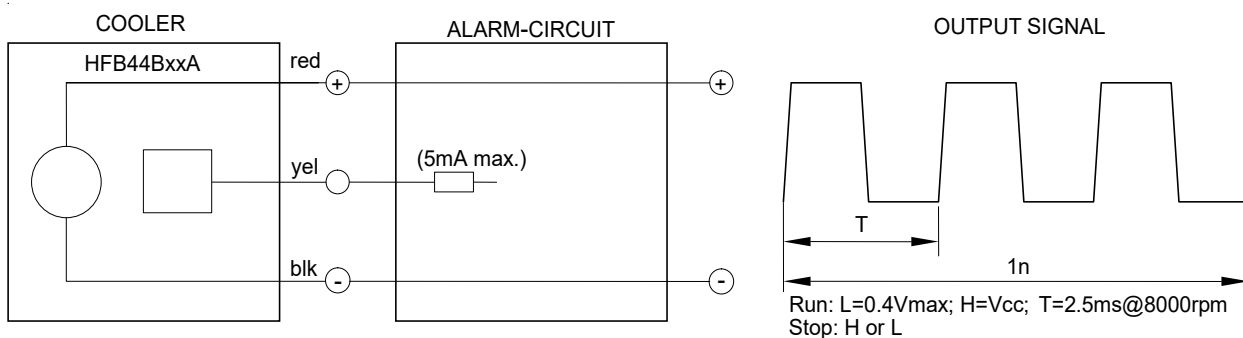
The **SEPA**® coolers HFB44B..A include a pulse output, which allows monitoring the correct function of the fan.

The pulse is like a rectangular wave. Three periods (3T) correspond to one rotation of the rotor. The amplitude appears periodically. At blocked rotor, the output signal could be L ($\leq 0,4V$) or H (Vcc).

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

The coolers have tinned lead wire ends (without connector).

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



• ACCESSORIES:

Connector: on request
Mounting part: TCT42 or HERNON 746-SET

• ORDER INFORMATION (Delivery time on request)

| | | |
|----------------|--|-----------|
| HFB44B05A-002E | SEPA ® Chip-Cooler, 44x44x7.5mm, 5VDC, Ball-Bearing, FG, CE, UL | 111111406 |
| HFB44B12A-006 | SEPA ® Chip-Cooler, 44x44x7.5mm, 12VDC, Ball-Bearing, FG, CE, UL | 214422010 |

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

Technical changes without notice • 04/19