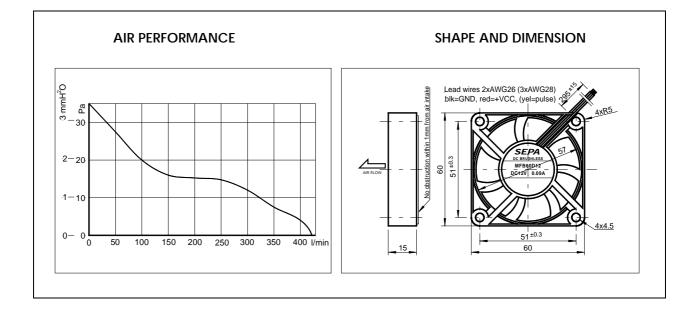
# **SEPA<sup>®</sup>** BRUSHLESS DC FAN

## MFB60D05(A) MFB60D12(A) MFB60D24(A) C€

### HIGH RELIABILITY FAN



#### PERFORMANCE

CE		MFB60D05(A)	MFB60D12(A)	MFB60D24(A)
Operating Voltage	[VDC]	4.5 5.0 5.5	10.2 12 13.8	20.4 24 27.6
Operating Current	[mA]	180	90	50
Start Current	[mA]	500	200	110
Max. Air Flow	[l/min - m <sup>3</sup> /h]	420 – 25.2	420 – 25.2	420 – 25.2
Max. Air Pressure	[mmH₂O - Pa]	3.6 - 35	3.6 - 35	3.6 - 35
Typ. Noise @ 1m	[dB(A)]	26	26	26
Operating Temperature	[°C]	-10+70 (80)		
Rotor Speed	[RPM]	3800	3800	3800
Life Expectancy L <sub>10</sub> /MTBF @ 20° [h]		95000/280000		
Bearing System		Ball Bearings ZZ / Steel Flange		
Pulse Output (onlyA)	Pulse/Rev.	2	2	2
Weight	[g]	38		
Packing Quantity	[PCs]	50 - 100 - 250		

The new generation of **SEPA**<sup>®</sup> high-tech miniature fans are suitable for industrial use and has a remarkable air flow performance despite its small dimensions. Due to a nearly linear air performance characteristic, the fans are applicable for different uses. They are 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. The fans are RoHs-compliant.

Further features of these fans are its extremely robust and torsionally rigid plastic housing of PBT (UL E54695), ball bearings with narrow tolerances, of special steel, polyester-based PCB (UL E44247) and absolute reliability due to 100% burn-in.

SEPA EUROPE GmbH	D-79108 FREIBURG	Tel: 0761/1561025	Fax: 0761/1561027		
10/05		Technical ch	Technical changes without notice		

#### • Alarm Signal (Optional)

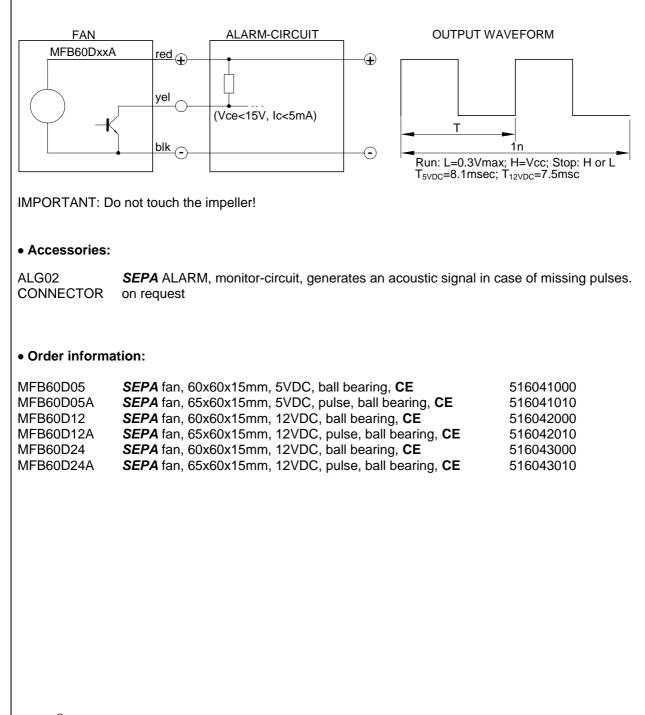
The **SEPA**<sup>®</sup> MFB60DxxA include a speed impulse output, which enables monitoring the correct function of the fan. An alarm-board is available on request.

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 not used alarm output).

The MFB60Dxx(A) have tinned lead wire ends (without connector).



SEPA<sup>®</sup> is the brand name for fans and CPU-Cooler, made by Nippon Keiki Works LTD., Tokyo