

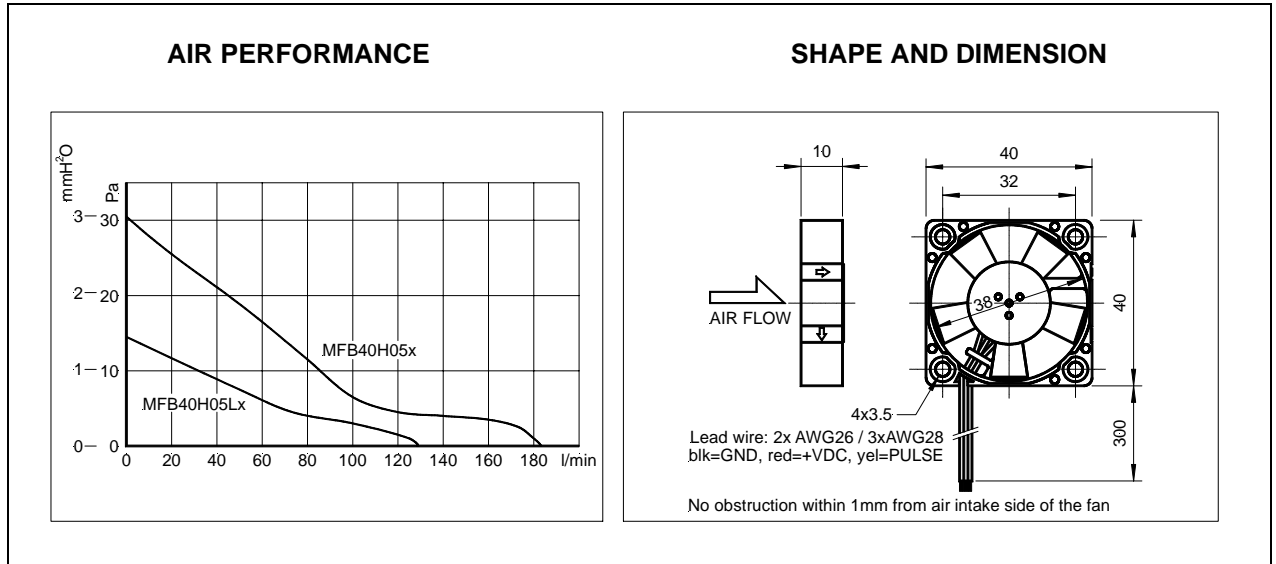
SEPA[®] BRUSHLESS FAN

MFB40H05, MFB40H05L, MFB40H05A, MFB40H05LA



HIGH RELIABILITY FAN

AUTOMOTIVE FAN



PERFORMANCE

CE		MFB40H05L MFB40H05LA	MFB40H05 MFB40H05A
Operating Voltage	[V]	4.5 ... 5.0 ... 5.5	
Typ. Operating Current	[mA]	50	90
Max. Start Current	[mA]	90	250
Max. Air Flow	[l/min - m ³ /h]	130 - 7.8	184 - 11.0
Max. Air Pressure	[mmH ₂ O - Pa]	1.5 - 14.4	3.1 - 30.5
Typ. Noise @ 1m	[dB(A)]	19	24
Operating Temperature	[°C]	-40/+80 (85 for 3 hours max.)	
Life Expectancy L ₁₀ /MTBF	[h]	95000/280000	
Rotor Speed	[RPM]	3800	5800
Bearing System		ball bearings ZZ	
Weight	[g]	13	
Pulse Output (...A)		...A: 2 Pulses / Rev.	
Packing Quantity	[PCs]	50 - 100 - 500	

This **SEPA**[®] high-tech miniature fan is suitable for industrial or automotive use and has a remarkable air flow performance despite its small dimensions. Due to a nearly linear air performance characteristic, the fan is applicable for different uses. 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 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.

• **ALARM SIGNAL**

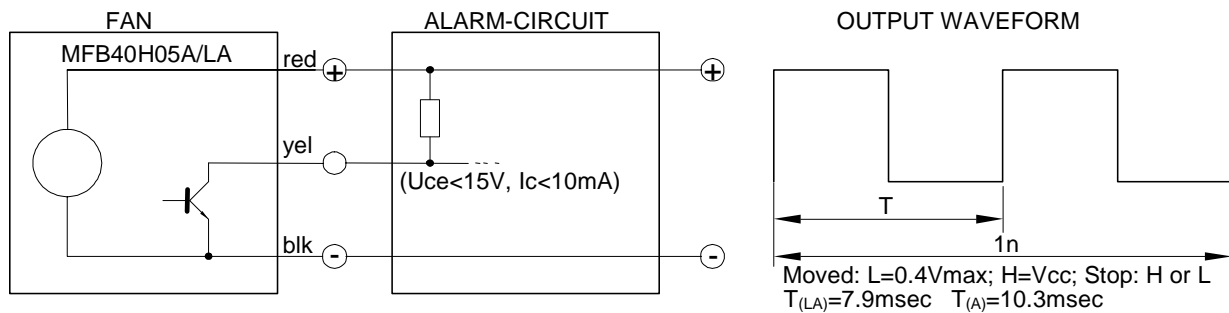
The **SEPA**® MFB40H05A and MFB40H05LA include a pulse output, which allows monitoring the correct function of the fan. An alarm-board is available on request.

The pulse is like a rectangular wave, the frequency correlates to 2 x rotor speed. At blocked rotor the output signal could be L ($\leq 0.4V$) or H (5V).

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 needed.

Do not connect not used pulse output (insolate).

The MFB40H05(A) has tinned lead wire ends (without connector).



• **ACCESSORIES:**

ALG01 **SEPA** ALARM, monitor-circuit, generates an acoustic signal in case of missing pulses.
CONNECTOR on request

• **ORDER INFORMATION:**

MFB40H05	SEPA ® Miniature fan, 40x40x10mm, 5VDC, ball bearings, CE	514081000
MFB40H05L	SEPA ® Miniature fan, 40x40x10mm, 5VDC, ball bearings, CE	514081100
MFB40H05A	SEPA ® Miniature fan, 40x40x10mm, 5VDC, ball bearings, pulse, CE	514081010
MFB40H05LA	SEPA ® Miniature fan, 40x40x10mm, 5VDC, ball bearings, pulse, CE	514081110

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