

Alphacool ES 80mm 800-6.000rpm Fan (80x80x25mm) - Two Ball Bearing - PWM (JE8025B12V)

Alphacool article number: 24829



Quick Info

The Alphacool ES fans have been specially developed for use in servers and workstations and, unlike usual, do not offer a 2 or 3-pin DC power connection, but a 4-pin PWM control.

- Via PWM adjustable from 800 - 6000 rpm
- High static pressure with 14,29 mm H2O
- High airflow with 130,83 m
- Soft start
- Auto Power Off
- 0% PWM = 0rpm
- Double ball bearing

Scope of delivery

1 x ES 80mm fan

Technical data

Dimensions (L x W x H)	80 x 80 x 25mm
Speed	800-6000rpm
Bearing	Two ball bearing
Connection	4-Pin PWM
Cable length	30cm
Operation voltage	7 - 14V
Start voltage min.	7V
Power consumption	0,66 - 0,85A (7,92 - 10,2W)
Static pressure	14,29 mm H2O
Max. air flow	130,83 m³/h
Noise	50 dB(A)
MTBF	70.000h
color	black

Security features

Automatic Shutdown	Automatic switch-off if the fan is blocked
Automatic restarting	Restart attempt after 2-6 seconds if blocked
Damage due to blocking	It is guaranteed that the fan will not be damaged if it is blocked for up to 72 hour

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Product pictures	24829_Alphacool_ES_80mm_800-6.000rpm_Fan_(80x80x25mm)_-_Two_Ball_Bearing_-_PWM_(JE8025B12V)_pics.zip
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Packaging dimensions per unit

L x W x H	90 x 85 x 30 mm
Weight	108 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197135795
Customs code	84145915000
Guarantee	3 years

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PWM control

Instead of the usual 2 cables or the 3-pin connector Alphacool now also uses a 4-pin PWM connector for enterprise fans, which is supported by more and more server mainboards. Via the 4-pin PWM connector, the fan always receives full voltage and is controlled by pulse width modulation. This allows the fan to be controlled over a much wider speed range. A considerable amount of energy can be saved whilst controlling the fans in server racks and with 0% PWM control, the fans can even be stopped completely. The fan also offers a soft start, which increases the service life of the fan and reduces the risk of injury. At speeds of several thousand revolutions per minute, no parts of the body should get between the fan blades.

Double ball bearings

Unlike classic plain bearing, Alphacool ES fans have a double ball bearing for increased service life under full load. Double ball bearings are generally regarded as the highest quality bearings in terms of durability and quality. This also ensures a high level of running smoothness in terms of minimal vibration.

Protection circuits

All Alphacool Enterprise fans have multiple protection circuits. If the fans are blocked, they automatically try to restart at reduced speed after a few seconds. Thanks to the soft start, including the emergency start function, the fan can be blocked for up to 72 hours without suffering damage. In case of wrong polarity when connecting the fan, a burn-out of the electronics for at least 5 seconds is impossible. If the fan is connected incorrectly for a short time, this is no problem.

The Alphacool ES fans for servers and workstations offer an extremely high air flow and an extremely high static pressure. They are therefore ideal for use on radiators or as particularly powerful case fans.