

Brushless DC Fan

CNDC24B7

Dynetics

represents a broad range of axial- and radial-fans with an AC or DC-power supply: The fans combine long life with high reliability. See for instance the L10 curves of selected fans showing 100.000 hrs at 20° C and 40.000 hrs at 60° C

Whether your application request a very silent fan (gentle Typhoon) or compact fans with very high pressure by an integrated pressure chambre (G-Type) we offer the right fans.

The special shape of the fan blade, shows not only a better result in airflow, but also in a low noise level.

Nidec Servo (NIDEC ADVANCED MOTOR CORPORATION):

- Established as a manufacturer of small motors over 50 years ago, Nidec Servo offer a comprehensive range of ball bearing based fans and blowers to suit many applications and have passed certification tests including UL, CSA, TUV and VDE. We can also supply products with sensors of a lockup detection type, pulse output and a rotational speed detection type.

CNDC series

axial fans,

- sizes 120sq x 38mm.
- Are long life time, ball bearing based DC-fans made from ABS and PBT synthetic resins with standard 300mm leadwires.
- This fan has a open flange, but on request also available with a spacer (-V).
- Optional are versions with a pulse output (-P); a Lock detection (-S), a speed detection (-Q) and a humidity seal.



Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

NL

Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

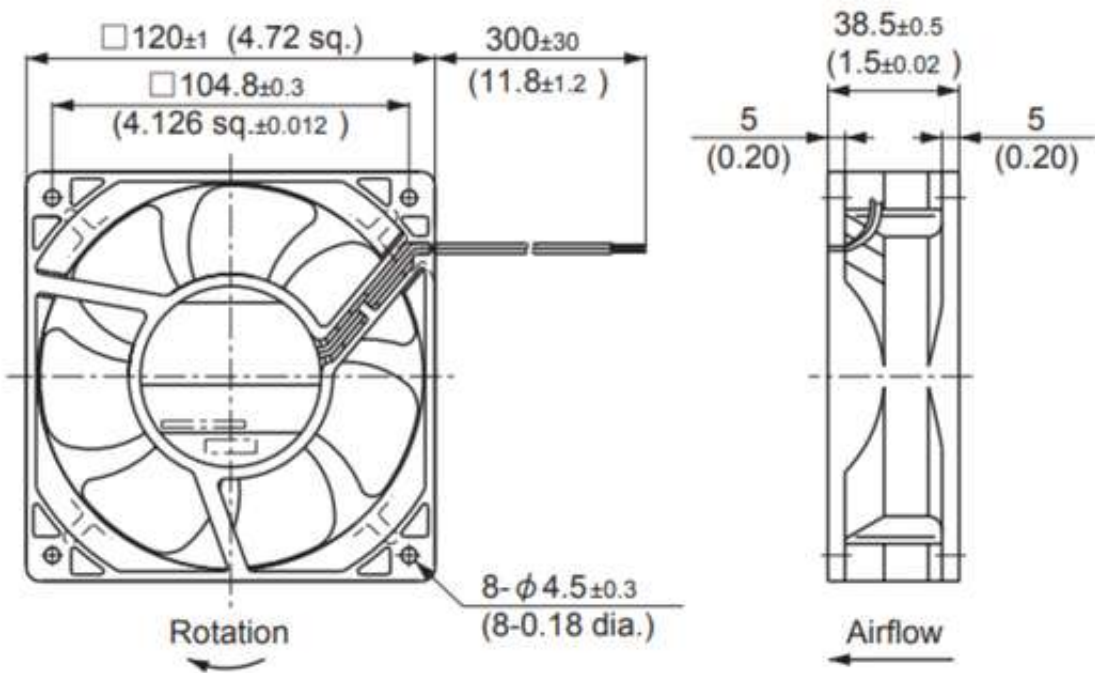
Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany

On customer request we can customize the fans with different cable length, connector, etc.

Images

External dimensions in mm (inches)

- Lead wire type Lead wire spec. AWG24 UL1007 or UL3266
- Color (+) Red
- (-) Black (CNDC□D7: Blue)



Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

NL

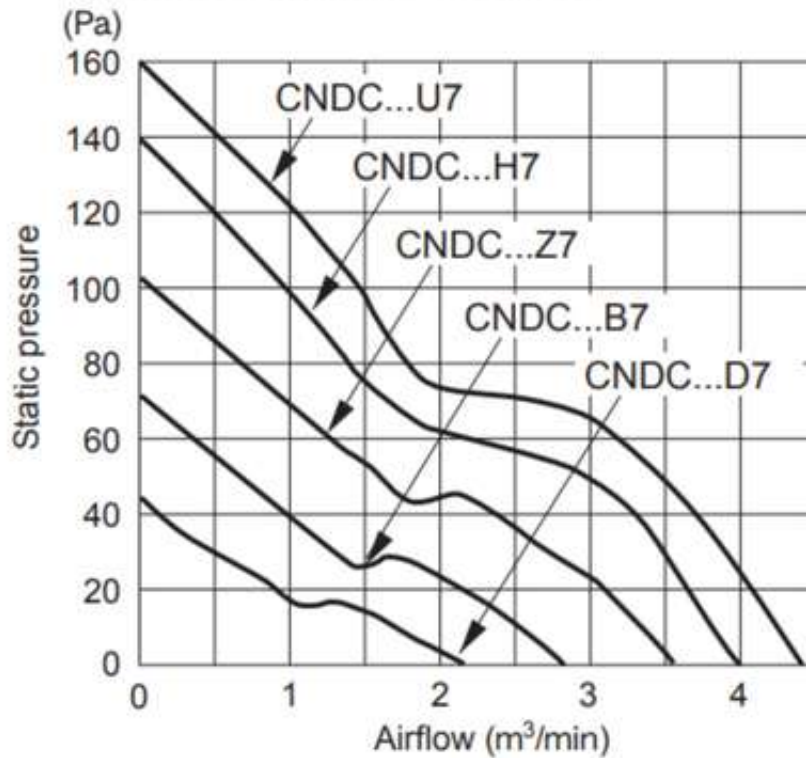
Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany

■ Standard airflow and static pressure characteristics (At rated voltage)

[By double chamber method]



Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

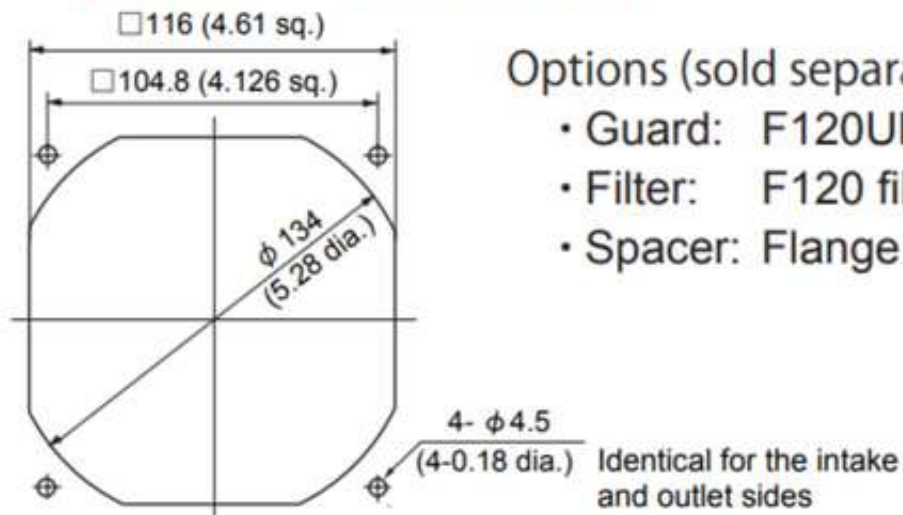
NL

Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany

■ Mounting hole dimensions in mm (inches) [Recommendation]



Options (sold separately)

- Guard: F120UL guard
- Filter: F120 filter
- Spacer: Flange spacer CNDC

Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

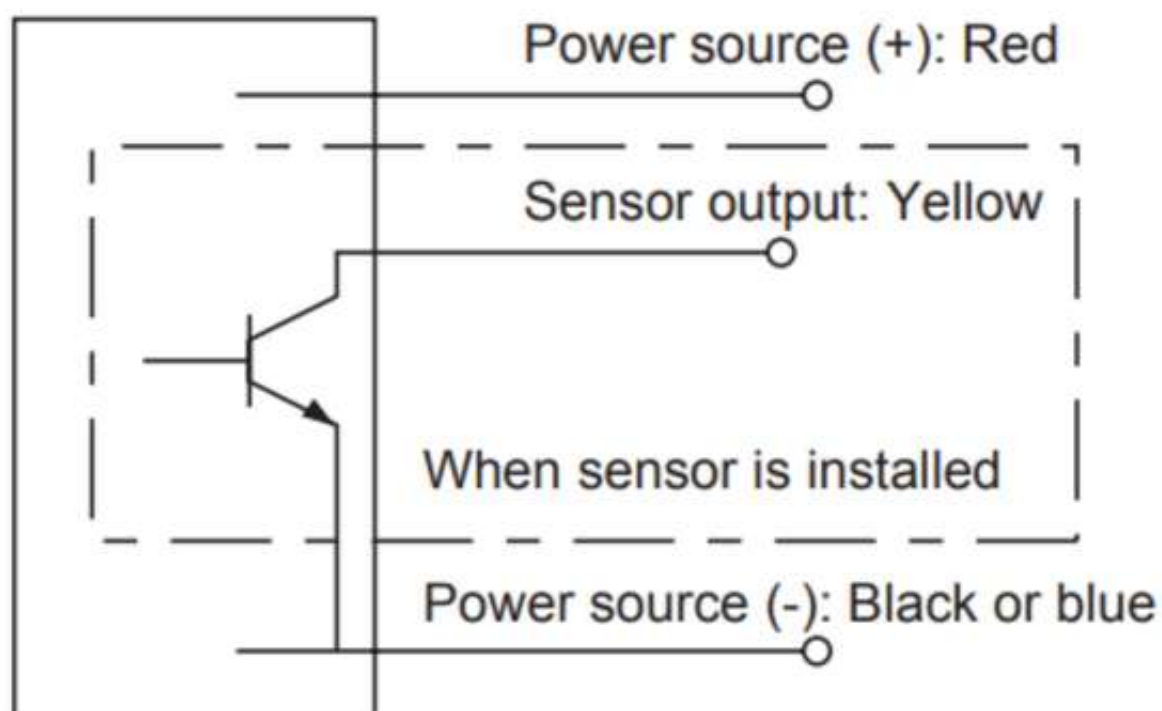
NL

Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany

■ Wiring connection diagram



Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

NL

Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany



Details

CNDC24B7 Brushless DC Fan; 120sq x 38mm; 2,8m3/min; 70Pa

Max. Airflow	2,8	m3/min
Max. Airflow	99	CFM
Max. Static pressure	70	Pa
Max. Static pressure	7,11	mmH2o
noise	40	dB
speed	2650	rpm

Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

NL

Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany

input	4,8	W
Voltage	24	V
Current	200	mA
sizes	120sq x 38	mm
operating temperature	-20 - +70	°C
Voltage Operating range	12 - 27,6	V

- HOUSING: PBT-ABS synthetic resins
- IMPELLER: PBT-ABS synthetic resins
- BEARING: both sides shielded Ball bearing
- DIELECTRIC STRENGTH: The DC fans and blowers of NIDEC SERVO are accepted in withstand voltage tests of 500 V 50 Hz for one minute or 600 V 50 Hz for one second. The interrupting current of 5 mA is set for the dielectric strength testers.
- INSULATION RESISTANCE: class E (120°C) under JIS C 4004 (rotating electric machines – general), Class A ((105°C) under UL-703 standard, Class A ((105°C) under CSA-C22.2 standard, and Din IEC 950/VDE0806 standard and Class E (90°C) under the VDE0700 standard. MOTOR TYPE: Brushless DC motor, protected type: current shut off by detecting lock state, automatic reset.
- SAFETY: thermal and reverse connection protected
- TERMINATION: Lead Wire 300mm
- WEIGHT: 250 g
- Certification test by UL, CSA, TUV, VDE
- ROHS COMPLIANCE Yes
- Reach: Yes

Options:

- Suffix -P: Pulse code output (also called “speed signal”) a rectangular wave of two pulses will be output for each turn of the propeller via an extra wire.
- Suffix -Z: a PWM signal from the customer equipment is input to the control line (blue wire) of the fan motor for variable-speed operation
- Suffix -S: lock detection by an output signal via an extra wire, indicates an L state (transistor ON) while propeller is rotating
- Suffix -Q: speed detection the output signal indicates the H state when the propeller revolutions are slower than the preset state
- Suffix -C: “humiseal”, protection layer covering the sensitive electronic parts

Other options: contact us for your requirements of customization (examples customized lead wire, connector, etc), finger guard, etc.

Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

NL

Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany

Specifications

Max. Airflow	2.8 m3/min	Max. Airflow	99 CFM	Max. Static pressure	70 Pa
Max. Static pressure	7.11 mmH2o	Noise	40 dB	Speed	2650 rpm
Input	4.8 W	Voltage (rating)	24 V	Current (rating)	200 mA
Size frame	120 mm	Supplier	Nidec Servo	Operating temperature	-20 - +70 Degrees Celcius
Voltage Operating range	12 - 27.6 V	Starting current	640 mA		

This PDF-document has been generated from a selection of the available details from the manufacturer. In case the contents of the PDF-file is incomplete or difficult to read, we apologize for the inconvenience and ask you to contact us (info@dynetics.eu)

All product specific information is provided to Dynetics B.V. ("Dynetics") by the manufacturers who are solely responsible for its content and accuracy. Dynetics will not be responsible for typographical or other errors or omissions regarding prices or other information.

Phone

NL

+31 499 371007

DE

+49 2157 128990

Address

NL

Dynetics B.V.
De Rijn 12
5684 PJ Best
Netherlands

DE

Dynetics GmbH
Klostergasse 6
D-41334 Nettetal-
Kaldenkirchen
Germany