Plate mounted axial flow fans

COMPACT HCBB / HCBT Series - Aluminium impellers

HCBB/HCBT

Range of low profile plate mounted axial fans fitted with aluminium impellers and single phase motor (HCBB) or three phase motor (HCBT), IP65 (1), Class F insulation (2), equipped with thermal protection (3).
(1) Models 800, 900 and 1000 are IP55.
(2) Working temperatures from -40ºC up to +70ºC. Except models Ø 800, 900 and 1000 suitable for usage in environments from -20ºC to +40ºC.
(3) Except models Ø 800 to 1000.

Motors
Available, depending upon the model, with single or three phase motors in 4 or 6 poles. All motors are speed controllable by autotransformer except models /4-630, B/710, T/4-710, T/800, T/900 and T/1000.Three phase models are speed controllable by inverter.
Electrical supplies:<dd>Single phase 220-240V-50Hz. (Capacitor located inside the wiring terminal box).
Three phase 220-240/380-415V-50Hz or 400V-50Hz (See characteristic chart).

Additional Information
Standard air direction: form (A) configuration (Motor over Impeller).

On request
Inlet finger proof guard for models 800 to 1000.

ATEX

On request, explosion proof versions in accordance with ATEX Directive, for three phase models.- Motors IP55, Class F- ATEX Flameproof-Gas:In standard ATEX version flameproof motors are without thermal protection.If used with frequency inverter, flameproof motors with a PTC-type thermal protection must be specified at order.For models 800 to 1000mmII 2G Ex d IIB T4II 2G Ex d IIB+H2 T4 (with Ex d IIC T4 motor)- ATEX Increased safety-Gas:Except models HCBT/ 4-250, HCBT/ 6-355, HCBT/ 6-400Available model HCBT/ 6-400 with 230/400 V motorAvailable models to HCBT-1000II 2G Ex e II T3- ATEX Dust:In standard ATEX version, ATEX motors for dust are without thermal protection.If used with frequency inverter, ATEX motors for dust with a PTC-type thermal protection must be specified at order.For models 800 to 1000mmSuspended flammable particles and non-conductive dust:II 3D Ex tc IIIB T125ºCConductive dust:II 3D Ex tc IIIC T125ºC (with IP65 motor)Working temperatures for ATEX versions:-20ºC to +55ºCmodels HCBT/4-315 to HCBT/4-710models HCBT/6-450 to HCBT 6-710-20ºC to +40ºCmodel HCBT/4-800 to 1000model HCBT/6-800 to 1000To select HCBT ATEX refer to Easyvent.Note electrical data may vary for ATEX motors.

Attributes

Compact design
Compact design created by the combination of the motor with the factory matched direct drive wrap around impeller hub.

Corrosion resistance
Mounting plate, motor support and finger proof guard protected by cataforesis primer and black polyester paint finish.
Stainless steel screws.

Terminal box
Wiring terminal box with cable gland PG-11.

Impeller dynamically balanced
Impellers are dynamically balanced, according to ISO 1940 standard, giving vibration free operation.

Manufacturing variations
Multiple manufacturing variations, depending on the type of installation and use conditions.

Configuration for models Ø 800 to 1000
Special design of motor over impeller, which provides compactness and tightness
IP55.

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