

## NIMUS 501 T2 11kW (std) (NS5012160)

### GENERAL DATA



#### CENTRIFUGAL FAN, FOR CLEAN OR SLIGHTLY DUSTY AIR

##### MANUFACTURING FEATURES

- Medium pressure centrifugal fan with direct coupling.
- Reinforced housing made of carbon laminated steel, protected against corrosion by powder coating polyester resin RAL 5010. Finish C3.
- Casing fully latched and adjustable.
- Self-cleaning turbine and reinforced impeller with high-performance backward (reaction) blades made of carbon laminated steel dynamically balanced to minimize noise and vibrations. Black painted RAL 9005
- Squirrel cage standardized asynchronous IEC motor with IP-55 protection and class F electrical insulation. Standard voltages 230/400V 50Hz for three-phase motors up to 4kW and 400/690V 50Hz for higher powers. IE4 motors for 75kW power or higher.
- Motor with feet (B3) supported on motor support foot.
- Models of size 500 and above are supplied with a front support foot, for the other models the front support foot is optional.
- Maximum working temperature in continuous: air transported: 130°C, Environment: 60°C.
- Available positions (to be indicated in case of order): LG270, LG0, LG45, LG90, LG135, LG180, LG225, LG315, RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315.
- The indicated codes correspond to the model in position LG270

##### APPLICATIONS

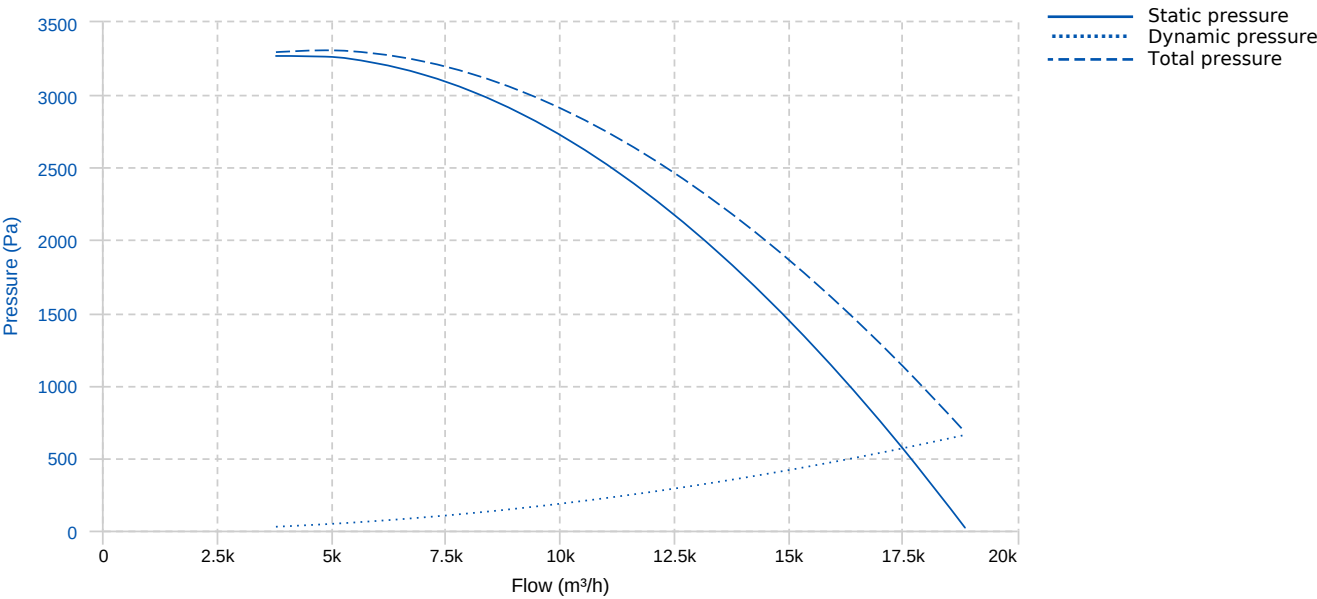
Suitable for moving clean or dusty air. Designed to be installed in conduit for suction or impulsion.

- Paint booths
- Collection of dust
- Food industry dryers
- Food processing
- Incineration
- Odor control in industry
- Indoor / outdoor pollution control
- Big buildings
- Malls
- Factories / Industrial buildings
- Warehouses
- Extraction of smoke
- Boilers and ovens
- Manufacture and treatment of chemical products.
- Tunnels, underground stations.

##### ON DEMAND

- Fans for special voltages.
- 2 speed motor.
- C4 or C5 coating painting
- Hot dip galvanized
- Inox 304 (normal or electropolished finish)
- Inox 316 (normal or electropolished finish)
- Cooling wheel
- Anticaloric paint
- Fully welded housing (waterproof)
- Inspection door to facilitate maintenance and cleaning
- Drain plug.
- Airtight axle
- Non-sparking air passage and standard motor
- Other brands of motors.

PERFORMANCE CURVE

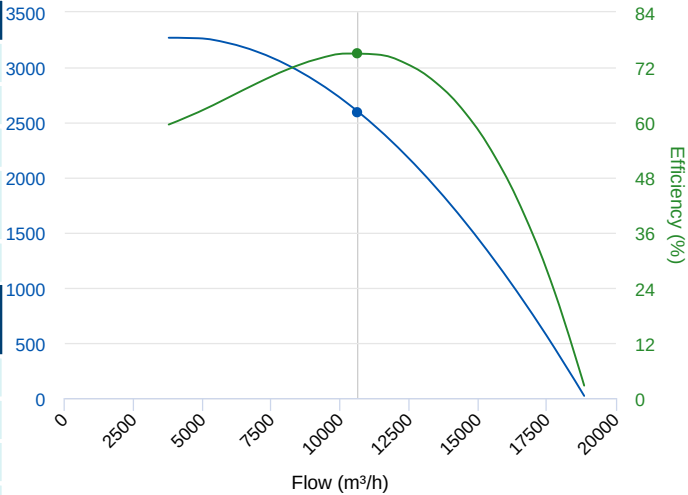


TECHNICAL DATA

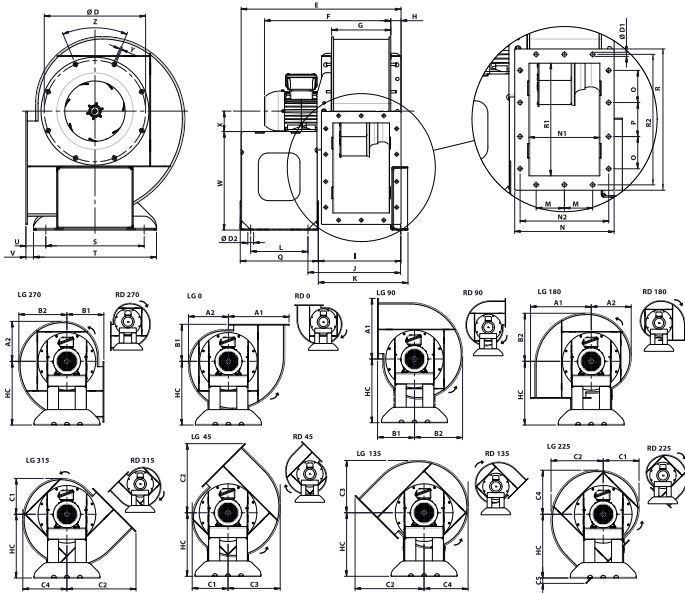
| Fan   |       |                |           |                |            |               |        |
|-------|-------|----------------|-----------|----------------|------------|---------------|--------|
| RPM   | 2940  | Approx. weight | 195.05 kg | Max. Flow      | 18850 m³/h |               |        |
| Motor |       |                |           |                |            |               |        |
| Power | 11 kW | RPM            | 2940      | I max. (400V)  | 20,8 A     | I max. (690V) | 12,1 A |
| Size  | 160L  | Approx. weight | 85 kg     | Efficiency (%) | 91.2 %     | FP            | 0.85   |

ERP DATA

| Fan data sheet                      |                                             |                       |
|-------------------------------------|---------------------------------------------|-----------------------|
| Fan type                            | Centrifugal fan backward blades with casing |                       |
| Installation category               | A: Outlet and Inlet free discharge          |                       |
| Efficiency category                 | Static                                      |                       |
| The fan has to be installed with VF | No                                          |                       |
| Motor power (kW)                    | 11                                          |                       |
|                                     | Fan values                                  | ERP Requirements 2015 |
| Max. efficiency (%)                 | 75.11                                       | 60.97                 |
| Efficiency grade (N)                | 75.14                                       | 61                    |
| Pabs (kW)                           | 10.379                                      |                       |
| Flow (m³/h)                         | 10645.44                                    |                       |
| Static pressure (Pa)                | 2597.7                                      |                       |
| Speed (m/s)                         | 2940                                        |                       |
| Specific ratio                      | 1.03                                        |                       |



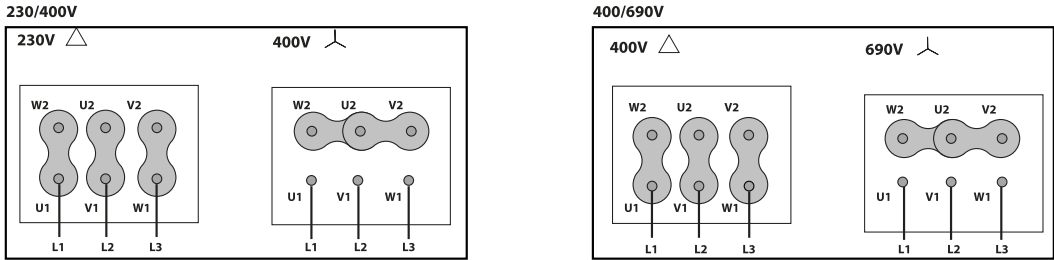
DIMENSIONS



Dimensions (mm)

|    |       |   |     |   |     |   |       |   |      |
|----|-------|---|-----|---|-----|---|-------|---|------|
| R2 | 550   | S | 487 | T | 563 | U | 113.1 | V | 75.1 |
| W  | 465.6 | X | 160 | Y | M8  | Z | 8x45º |   |      |

WIRING DIAGRAM



ACCESSORIES



**SAFETY SWITCH**  
**INT 25 3P A**  
REF: INT253PA



**INLET PROTECTION GUARD FOR CENTRIFUGAL FANS**  
**RA 50/16**  
REF: A-243501901



**CONNECTION FLANGE**  
**AC 500**  
REF: 960003214



**ANTI-VIBRATING FLANGE 400º/2H**  
**BA-400 50**  
REF: 960002064



**ANTI-VIBRATION JOINT**  
**JE 45**  
REF: 300719201



**OUTLET FLANGE FOR STORM MODELS**  
**EIS 500x316-500**  
REF: EIS-5031650



**CIRCULAR-CIRCULAR ANTI-VIBRATION FLANGE FOR STORM**  
**BADS 500**  
REF: BADS-5050



**OUTLET PROTECTION GUARD FOR STORM FANS**  
**RIS 500x316**  
REF: RIS-50316E2



**RECTANGULAR-RECTANGULAR ANTI-VIBRATION FLANGE FOR STORM**  
**BIDS 316x500-200**  
REF: BIDS-50316



**FREQUENCY SPEED CONTROLLER**  
**SFC 400 III 23A \***  
REF: SFC400III23



**ANTI-VIBRATION RUBBER BLOCK**  
**AVR (GENERIC)**



**ANTI-VIBRATION SPRING BLOCK**  
**AVS (GENERIC)**



**ACOUSTIC CABINS FOR CENTRIFUGAL FANS  
AB (GENERIC)**



**FRONTAL FEET SUPORT  
CPD-N50  
REF: A-CPD-N50**



**MULTIPOSITION FRONTAL FEET SUPPORT  
CPDMP-N50  
REF: A-CPDMP-N50**

SPARE PARTS

|   | Code      | Model                     | Qty |
|---|-----------|---------------------------|-----|
| 1 | R-BAD-N50 | INLET CONE 500            | x1  |
| 2 | 721001086 | MOTOR 11KW T2 B3 400/690V | x1  |
| 3 | 721001086 | MOTOR 11KW T2 B3 400/690V | x1  |