

## Motor Type EC CENTRIFUGAL FORWARD CURVED FAN 140 x 59 38B

Code: 72-700140

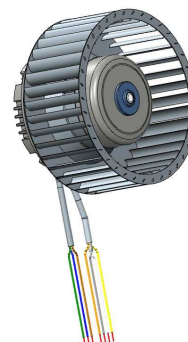
Project code: P11969

| Supply    |          |     | Type | Impeller Type                                 |
|-----------|----------|-----|------|-----------------------------------------------|
| 220-240 V | 50/60 Hz | ~ 1 | ME72 | Centrifugal Forward Curved Blade single inlet |

### Nominal Data

Note: 3D image provided for information purposes only.

|                           |       |         |
|---------------------------|-------|---------|
| Nominal voltage range     | [V]   | 220-240 |
| Frequency                 | [Hz]  | 50/60   |
| Speed                     | [Rpm] | 3026    |
| Power input               | [kW]  | 0.10    |
| Current draw              | [A]   | 0.69    |
| cos φ                     | [-]   | 0.62    |
| Max Efficiency ( stat A ) | [%]   | 38.1    |
| Efficiency Grade ( N )    | [-]   | 50.8    |



### Technical Features

|                                            |        |                           |
|--------------------------------------------|--------|---------------------------|
| Max. operating temperature                 | [°C]   | 60                        |
|                                            | [°F]   | 140                       |
| Min. operating temperature                 | [°C]   | -30                       |
|                                            | [°F]   | -22                       |
| Air flow @ 0 Pa                            | [m³/h] | 506                       |
| Thermal protector                          |        | --                        |
| Insulation class                           |        | F                         |
| Motor bearing                              |        | Ball bearing              |
| Protection level                           |        | IP54                      |
| Product compliant to                       |        | CE; EN 60335-1            |
| Rotation (seen on rotor side)              |        | Clockwise                 |
| Impeller size (Ø x h)                      | [mm]   | 140 x 59 38B              |
| Impeller material                          |        | Metal                     |
| Weight                                     | [kg]   | 1.3                       |
| Supply cable lenght                        | [mm]   | 900                       |
| Signal cable lenght                        | [mm]   | 900                       |
| Condensate discharge holes (on rotor side) |        | NO                        |
| Mounting position                          |        | Vertical/Horizontal Shaft |
| ERP compliant                              |        | ERP 2015                  |

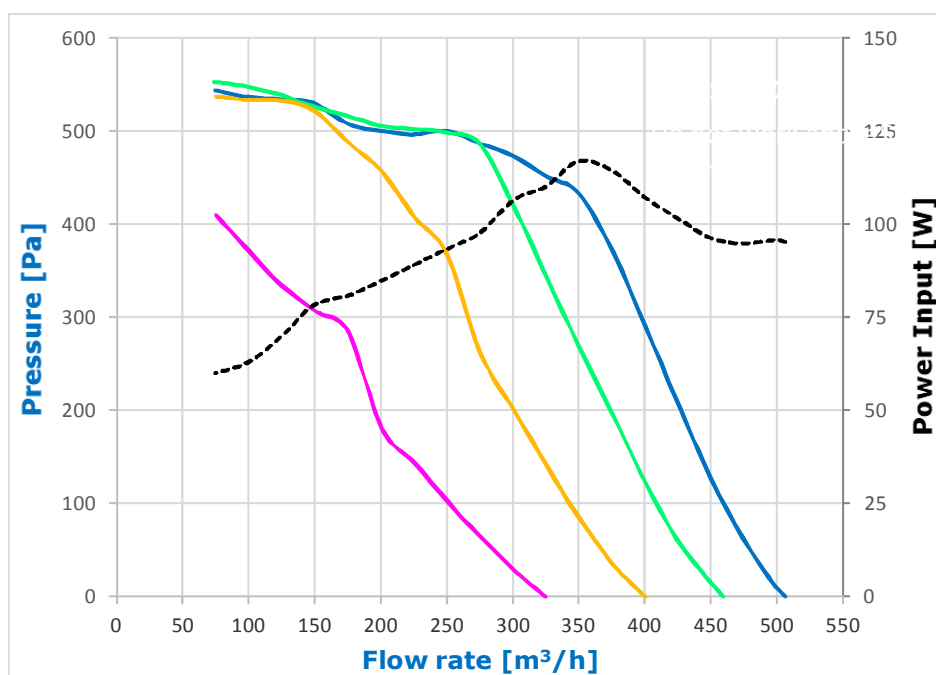
### Motor protection

- Locked rotor protection
- Motor current limit
- Over temperature protected
- Line under/overvoltage detection

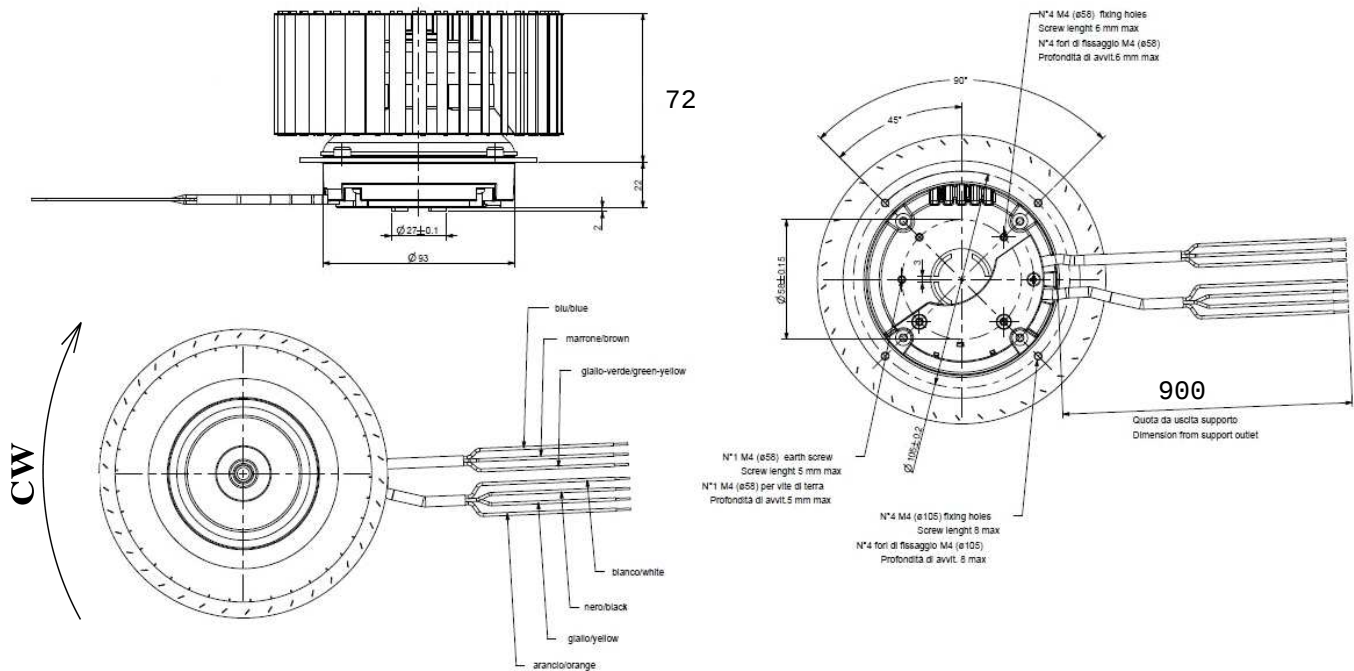
### Special features

- Output 10 Vdc
- Tach output
- Soft start
- Control input 0-10 Vdc/PWM
- Anti windmill
- Low noise FOC control

## TEST SETUP: Scroll P11859 FAN: 140 x 59 38B



| Supply |      | Speed | Power | Current | Efficiency                   | Flow rate | Pressure | Flow rate | Pressure              |          |
|--------|------|-------|-------|---------|------------------------------|-----------|----------|-----------|-----------------------|----------|
| [V]    | [Hz] | [rpm] | [W]   | [A]     | [%]                          | [m³/h]    | [Pa]     | [cfm]     | [in_H <sub>2</sub> O] |          |
| 230    | 50   | 3373  | 60    | 0.44    | 18.9                         | 75        | 544      | 44        | 2.184                 | Max Poty |
| 230    | 50   | 3026  | 98    | 0.69    | 38.1                         | 276       | 486      | 162       | 1.951                 |          |
| 230    | 50   | 2578  | 107   | 0.74    | 30.1                         | 400       | 290      | 235       | 1.164                 |          |
| 230    | 50   | 2031  | 95    | 0.67    | 0.0                          | 506       | 0        | 298       | 0.000                 |          |
| 230    | 50   | 3066  | 93    | 0.67    | Free Air test without scroll |           |          |           |                       | 8V       |
| 230    | 50   | 3386  | 60    | 0.44    | 18.8                         | 74        | 552      | 44        | 2.216                 |          |
| 230    | 50   | 3039  | 99    | 0.69    | 37.4                         | 275       | 485      | 162       | 1.947                 |          |
| 230    | 50   | 2086  | 72    | 0.52    | 19.0                         | 400       | 123      | 235       | 0.494                 |          |
| 230    | 50   | 1857  | 70    | 0.51    | 0.0                          | 460       | 0        | 271       | 0.000                 | 6V       |
| 230    | 50   | 3313  | 58    | 0.43    | 19.6                         | 76        | 537      | 45        | 2.156                 |          |
| 230    | 50   | 2630  | 68    | 0.49    | 37.7                         | 250       | 367      | 147       | 1.473                 |          |
| 230    | 50   | 1912  | 48    | 0.35    | 26.2                         | 325       | 140      | 191       | 0.562                 |          |
| 230    | 50   | 1621  | 47    | 0.34    | 0.0                          | 400       | 0        | 235       | 0.000                 | 4V       |
| 230    | 50   | 2940  | 41    | 0.30    | 20.6                         | 75        | 409      | 44        | 1.642                 |          |
| 230    | 50   | 2351  | 39    | 0.29    | 35.7                         | 175       | 285      | 103       | 1.144                 |          |
| 230    | 50   | 1578  | 25    | 0.19    | 28.4                         | 251       | 102      | 148       | 0.410                 |          |
| 230    | 50   | 1334  | 26    | 0.19    | 0.0                          | 325       | 0        | 191       | 0.000                 |          |



Note: image provided for information purposes only.  
Refer to the released product drawing for all the  
dimensions and components not specified in this  
technical datasheet.

Wiring Diagram

