

EM 280 EC 01

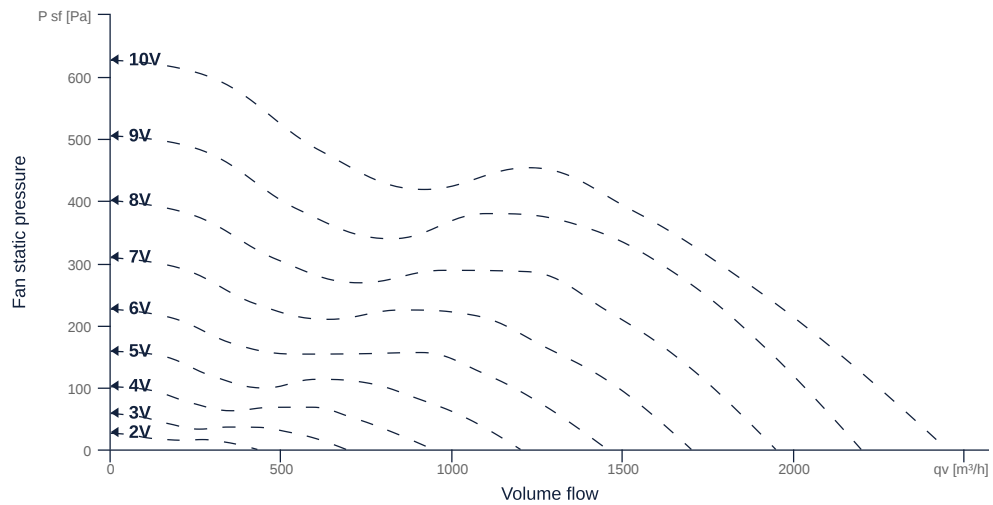
130701

- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- High efficiency IE5 EC motor, steplessly controllable
- Incl. 1x potentiometer for connection in terminal box
- Conveyed medium temperature up to 45 °C in continuous operation
- The benchmark for efficiency since 2012



FAN CURVES

| Name | Value | Unit |
|-------------|-------|------|
| Volume flow | 0 | m³/h |
| Pressure | 0 | Pa |



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GENERAL DATA

| Name | Value | Unit | Formula symbol |
|---------------------------------------|----------|------|-------------------------|
| Labeling | CE, UKCA | | |
| Duct size | - | | WxHduct |
| Pipe connection size (DN) | DN280 | | DN |
| Rated voltage (entire device) | 230 | V | U _{rated} |
| Phases (entire device) | 1~ | | phase |
| Electrical protection (entire device) | 6 A | | fuse |
| Housing material | Plastic | | mat _{casing} |
| Impeller material | Plastic | | mat _{impeller} |
| IP-protection class (entire device) | IPX4 | | IP _{compl} |
| IP-Protection class (terminal box) | IP44 | | IP _{Ebox} |
| Weight | 5.55 | kg | m |
| Fan type | Diagonal | | Fan _{type} |
| Category / Installation situation | A | | cat |

MAXIMAL DATA

| Name | Value | | Unit | Formula symbol |
|---------------------------------|-------|-------|-------------------|-----------------------|
| | 50 Hz | 60 Hz | | |
| Max. power consumption (device) | 267 | 267 | W | P _{ed, max} |
| Max. operating current (device) | 1.86 | 1.86 | A | I _{ed, max} |
| Max. speed | 3170 | 3170 | 1/min | n _{max} |
| Max. stat. efficiency | 58.6 | 58.6 | % | η _{es} |
| Max. fan efficiency | 62.2 | 62.2 | % | η _e |
| Max. flowrate | 2440 | 2440 | m ³ /h | Q _{v, max} |
| Max. stat pressure | 630 | 630 | Pa | p _{sf, max} |
| Max. medium temperature | 45 | 45 | °C | T _{m, max} |
| Max. environment temperature | 45 | 45 | °C | T _{amb, max} |
| Min. environment temperature | -30 | -30 | °C | T _{amb, min} |



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MOTOR DATA

| Name | Value | | Unit | Formula symbol |
|--------------------------|-------|---------------------|-------|-------------------------|
| | 50 Hz | 60 Hz | | |
| Rated frequency (device) | | 50 | | f |
| Motor type | | EC | | phase |
| Control type | | stepless-controlled | | ctrltype |
| Installation type | | ORM (Out) | | install |
| Rotation direction | | right | | rotation |
| Isolation class | | ISO F | | ISOclass |
| Motor-protection | | TEC | | protectmotor |
| Protection class | | IP33 | | IPmotor |
| Is pole-changeable | | No | | polexch |
| Type of power supply | | AC 1~ | | pwrsupmotor |
| Rated voltage | 230 | 230 | V | U _{rated, f1} |
| Rated current | 1.72 | 1.72 | A | I _{rated, f1} |
| Shaft power | 267 | 267 | W | P _{out, f1} |
| Speed | 3047 | 3047 | 1/min | n _{f1} |
| Min. temperature | -30 | -30 | °C | T _{motor, min} |
| UL-Certification motor | | None | | ULcert |

ERP DATA (LOT11)

| Name | Value | Unit | Formula symbol |
|---|----------|-------------------|---------------------|
| Speed at the energy efficiency optimum | 3017 | 1/min | n _{opt} |
| Efficiency level | 65.5 | % | N |
| Efficiency category | statisch | | catefficiency |
| Input power of the motor at the energy efficiency optimum | 0.28 | kW | P _{e, opt} |
| Overall efficiency | 81.7 | % | η _{ges} |
| Measurement category | A | | meas cat |
| Fan pressure at energy efficiency optimum | 418 | Pa | p _{f, opt} |
| Flowrate at energy efficiency optimum | 1426 | m ³ /h | Q _{v, opt} |



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