

EM 160L E2M 01

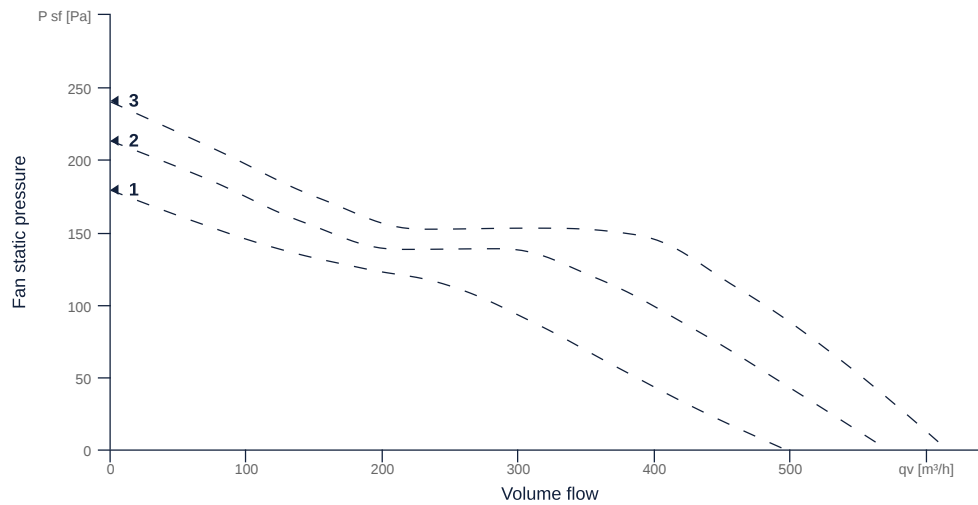
126549

- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing made of impact-resistant, reinforced polypropylene
- Robust AC motor, 3-steps controllable
- Conveyed medium temperature up to 60 °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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ruck

GENERAL DATA

| Name | Value | Unit | Formula symbol |
|---------------------------------------|----------|------|----------------|
| Labeling | CE, UKCA | | |
| Duct size | - | | WxHduct |
| Pipe connection size (DN) | DN160 | | DN |
| Rated voltage (entire device) | 230 | V | Urated |
| Phases (entire device) | 1~ | | phase |
| Electrical protection (entire device) | 6 A | | fuse |
| Housing material | Plastic | | matcasing |
| Impeller material | Plastic | | matimpeller |
| IP-protection class (entire device) | IPX4 | | IPcompl |
| IP-Protection class (terminal box) | IP44 | | IPebox |
| Weight | 2.55 | kg | m |
| Fan type | Diagonal | | Fantype |
| Category / Installation situation | A | | cat |

MAXIMAL DATA

| Name | Value | Unit | Formula symbol |
|---------------------------------|-------|-------------------|----------------|
| Max. power consumption (device) | 45 | W | Ped, max |
| Max. operating current (device) | 0.29 | A | Ied, max |
| Max. speed | 2820 | 1/min | nmax |
| Max. stat. efficiency | 33.9 | % | ηes |
| Max. fan efficiency | 37.5 | % | ηe |
| Max. flowrate | 615 | m ³ /h | Qv, max |
| Max. stat pressure | 240 | Pa | psf, max |
| Max. medium temperature | 60 | °C | Tm, max |
| Max. environment temperature | 60 | °C | Tamb, max |
| Min. environment temperature | -25 | °C | Tamb, min |
| Min. voltage | 230 | V | Umin |
| Stall current | 0.44 | A | ILRA |



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MOTOR DATA

| Name | Value | | Unit | Formula symbol |
|--------------------------|-------|-----------------|------|----------------|
| | 50 Hz | 60 Hz | | |
| Rated frequency (device) | | 50 | | f |
| Motor type | | AC 1~ | | phase |
| Control type | | step-controlled | | ctrltype |
| Installation type | | IRM (In) | | install |
| Rotation direction | | right | | rotation |
| Isolation class | | ISO F | | ISOclass |
| Motor-protection | | TAI | | protectmotor |
| Protection class | | IP00 | | IPmotor |
| Is pole-changeable | | No | | polexch |
| Type of power supply | | AC 1~ | | pwrsupmotor |
| Capacity capacitor | | 1.5 | µF | Ccond |
| Voltage capacitor | | 450 | V | VUcond |
| Number of poles (1) | | 2.000000 | | num polesw1 |
| Rated voltage | 230 | | V | Urated, f1 |
| Rated current | 0.22 | | A | Irated, f1 |
| Shaft power | 25 | | W | Pout, f1 |
| UL-Certification motor | | None | | ULcert |

ERP DATA (LOT11)

| Name | Value | Unit | Formula symbol |
|---|----------|-------|---------------------|
| Speed at the energy efficiency optimum | 2739 | 1/min | n _{opt} |
| Efficiency level | 34.3 | % | N |
| Efficiency category | statisch | | catefficiency |
| Input power of the motor at the energy efficiency optimum | 0.04 | kW | P _{e, opt} |
| Overall efficiency | 59 | % | η _{ges} |
| Measurement category | A | | meas cat |
| Fan pressure at energy efficiency optimum | 146 | Pa | p _{f, opt} |
| Flowrate at energy efficiency optimum | 397 | m³/h | Q _{v, opt} |



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