

DHA 220 E2P 30

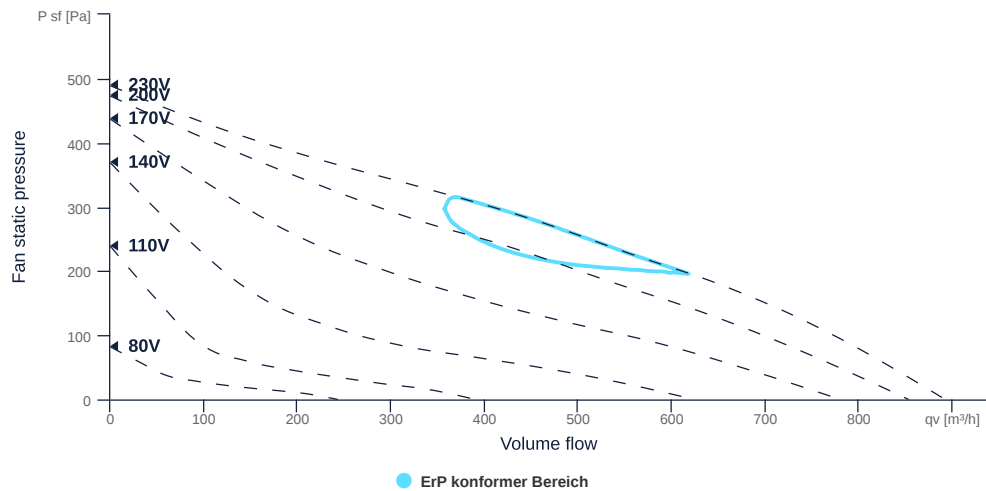
131829

- Horizontal discharge centrifugal fan
- Backward curved impeller
- Housing made of aluminium AlMg3
- Robust single phase AC motor, voltage controllable
- Integrated thermal switch
- Integrated device switch



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 | - | | WxH _{duct} |
| Pipe connection size (DN) | DN180 | | 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 (casing) | IP44 | | IP _{casing} |
| IP-protection class (entire device) | IPX4 | | IP _{compl} |
| IP-Protection class (terminal box) | IP44 | | IP _{ebox} |
| Weight | 5.1 | kg | m |
| Nominal air flow rate, nominal point m ³ /h | 619.2 | m ³ /h | q _{v,nom} |
| Nominal external pressure, static | 196 | Pa | p _{s,nom} |
| Fan type | Radial | | F _{antype} |
| Category / Installation situation | A | | cat |

ERP DATA (LOT 6)

| Name | Value | Unit | Formula symbol |
|--|---------------------------|-------------------|---------------------|
| Nominal air flow rate, nominal point m ³ /s | 0.17 | m ³ /s | q _{v,nom} |
| Actual electrical input power, nominal point | 0.12 | kW | P _{e,nom} |
| Face velocity, nominal point | 2.29 | m/s | v _{nom} |
| Nominal external pressure, static | 196 | Pa | p _{s,nom} |
| static efficiency of the extract fan, nominal point | 28.72 | % | η _{es,EHA} |
| Enclosure sound level, nominal point | 71.76 | dba | L _{WA2} |
| Rating | Product is compliant 2018 | | |



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MAXIMAL DATA

| Name | Value | | Unit | Formula symbol |
|---------------------------------|-------|-------|-------------------|-----------------------|
| | 50 Hz | 60 Hz | | |
| Max. power consumption (device) | 110 | 150 | W | P _{ed, max} |
| Max. operating current (device) | 0.57 | 0.69 | A | I _{ed, max} |
| Max. speed | 2760 | 3190 | 1/min | n _{max} |
| Max. stat. efficiency | 29.9 | 23.4 | % | η _{es} |
| Max. fan efficiency | 30.1 | 23.5 | % | η _e |
| Max. flowrate | 890 | 980 | m ³ /h | Q _{v, max} |
| Max. stat pressure | 490 | 640 | Pa | p _{sf, max} |
| Max. medium temperature | 60 | 55 | °C | T _{m, max} |
| Max. environment temperature | 60 | 55 | °C | T _{amb, max} |
| Min. environment temperature | -25 | -25 | °C | T _{amb, min} |
| Min. voltage | 80 | 80 | V | U _{min} |
| Stall current | 0.77 | 0.77 | A | I _{LRA} |

MOTOR DATA

| Name | Value | | Unit | Formula symbol |
|--------------------------|----------|---------------------|-------|--------------------------|
| | 50 Hz | 60 Hz | | |
| Rated frequency (device) | | 50 | | f |
| Motor type | | AC 1~ | | phase |
| Control type | | stepless-controlled | | ctrltype |
| Installation type | | ORM (Out) | | install |
| Rotation direction | | right | | rotation |
| Isolation class | | ISO F | | ISOclass |
| Motor-protection | | TAI | | protectmotor |
| Protection class | | IP33 | | IP _{motor} |
| Is pole-changeable | | No | | polexch |
| Type of power supply | | AC 1~ | | pwr _{sup} motor |
| Capacity capacitor | | 2.5 | μF | C _{cond} |
| Voltage capacitor | | 450 | V | V _{Ucond} |
| Number of poles (1) | | 2.000000 | | num poles _{w1} |
| Rated voltage | 230 | 230 | V | U _{rated, f1} |
| Rated current | 0.43 | 0.55 | A | I _{rated, f1} |
| Speed | 2390 | 2460 | 1/min | n _{f1} |
| Starting current | 0.73 | 0.72 | A | I _{start, f1} |
| Efficiency | 47.3 | 21.5 | % | η _{m, f1} |
| Min. temperature | -30 | -30 | °C | T _{motor, min} |
| Cos Phi | 0.980000 | 0.980000 | | cos φ |
| UL-Certification motor | | None | | ULcert |



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