

# D2840



## Characteristics

- Cylinders and arrangement: 10 cylinders in 90° V arrangement
- Mode of operation: Four-stroke diesel engine with direct fuel injection
- Turbocharging: Turbo charger with charge air cooling
- Engine cooling: Water circulation by means of attached rotary pump and front end combination radiator
- Injection: Bosch inline injection pump with electromagnetic actuator
- Engine control: Various types of GAC control unit available on request

## Availability

Engine series will phase out, limited availability in standard scope on demand

## Technical features

| Mode of operation                         |             | ESP           |        |               |        | LTP           |        |               |        |
|---|-------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| at engine speed                           | rpm<br>(Hz) | 1 500<br>(50) |        | 1 800<br>(60) |        | 1 500<br>(50) |        | 1 800<br>(60) |        |
| Engine version                            |             | LE 203        | LE 213 | LE 203        | LE 213 | LE 201        | LE 211 | LE 201        | LE 211 |
| Bore                                      | mm          | 128           | 128    | 128           | 128    | 128           | 128    | 128           | 128    |
| Stroke                                    | mm          | 142           | 142    | 142           | 142    | 142           | 142    | 142           | 142    |
| Displacement                              | l           | 18.3          | 18.3   | 18.3          | 18.3   | 18.3          | 18.3   | 18.3          | 18.3   |
| blocked ISO effective power <sup>1)</sup> | kW          | 545           | 610    | 585           | 660    | 496           | 545    | 567           | 622    |
| Torque                                    | Nm          | 3470          | 3883   | 3104          | 3501   | 3158          | 3466   | 3005          | 3297   |
| ISO standard power <sup>2)</sup>          | kW          | –             | –      | –             | –      | –             | –      | –             | –      |
| Torque                                    | Nm          | –             | –      | –             | –      | –             | –      | –             | –      |
| Net engine power output                   | kVA         | 630           | 700    | 660           | 750    | 570           | 620    | 640           | 700    |

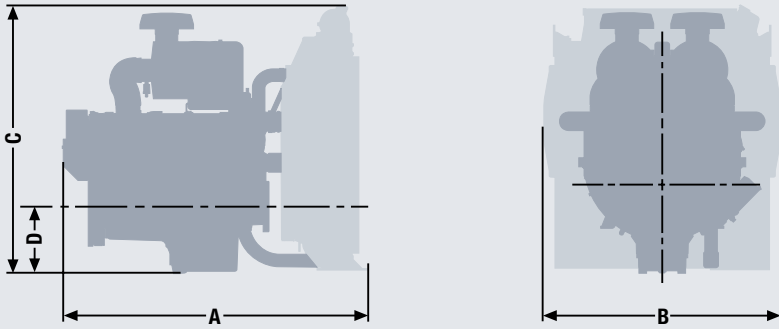
| Mode of operation                         |             | PRP           |        |               |        | COP           |        |               |        |
|---|-------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| at engine speed                           | rpm<br>(Hz) | 1 500<br>(50) |        | 1 800<br>(60) |        | 1 500<br>(50) |        | 1 800<br>(60) |        |
| Engine version                            |             | LE 201        | LE 211 | LE 201        | LE 211 | LE 201        | LE 211 | LE 201        | LE 211 |
| Bore                                      | mm          | 128           | 128    | 128           | 128    | 128           | 128    | 128           | 128    |
| Stroke                                    | mm          | 142           | 142    | 142           | 142    | 142           | 142    | 142           | 142    |
| Displacement                              | l           | 18.3          | 18.3   | 18.3          | 18.3   | 18.3          | 18.3   | 18.3          | 18.3   |
| blocked ISO effective power <sup>1)</sup> | kW          | –             | –      | –             | –      | –             | –      | –             | –      |
| Torque                                    | Nm          | –             | –      | –             | –      | –             | –      | –             | –      |
| ISO standard power <sup>2) 3)</sup>       | kW          | 451           | 495    | 515           | 565    | 310           | 350    | 390           | 435    |
| Torque                                    | Nm          | 2871          | 3151   | 2732          | 2997   | 1974          | 2228   | 2069          | 2308   |
| Net engine power output                   | kVA         | 520           | 570    | 580           | 640    | 350           | 400    | 440           | 480    |

1) Time-limited continuous output that must not be exceeded (IFN).

2) Variable continuous output during PRP operation, can be exceeded by 10% for limited period (ICXN).

3) Variable continuous output during COP operation, can be exceeded by 10% (ICXN).

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## Dimensions

| Type designation   | LE 203/LE 213/LE 201/LE 211 |      |
|--|-----------------------------|------|
| A-Length with fan-cooled radiator                        | mm                          | 2125 |
| B-Width with fan-cooled radiator                         | mm                          | 1600 |
| C-Height with fan-cooled radiator                        | mm                          | 1826 |
| D-Height of lower edge of engine to middle of crankshaft | mm                          | 454  |
| Dry weight with cooling system                           | kg                          | 1480 |