

D2868



heavy duty

Characteristics

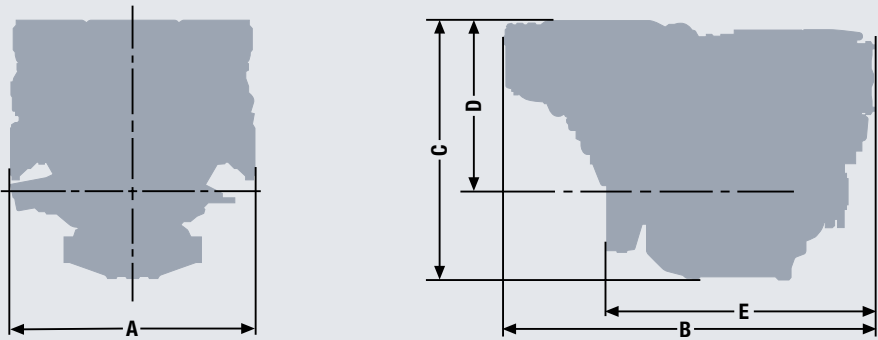
- Cylinders and arrangement: 8 cylinders in V arrangement
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Turbocharger with charge air intercooler and waste gate
- Number of valves: 4 valves per cylinder
- Fuel system: Common Rail direct fuel injection
- Engine block: High-strength casting with integrated oil and water ducts and replaceable cylinder liners
- Engine Lubrication: Closed system with forced feeding, oil cooling and filtering
- Type of cooling: Plate heat exchanger, seawater cooled
- Engine control: Electronic injection control
Electronic engine monitoring including diagnostic unit
- Fuel: DIN EN 590

D2868

Technical features

| Type designation | | LE 421 | LE 424 | LE 431 |
|----------------------------------|---------|--------------------------|--|--------------------------|
| Displacement | l | 16.16 | 16.16 | 16.16 |
| Nominal rating ¹⁾ | kW (hp) | 441 (600) | 441 (600) | 500 (680) |
| Rated speed | rpm | 1,800 | 1,800 | 1,800 |
| Torque at rated speed | Nm | 2,340 | 2,340 | 2,653 |
| Maximum torque | Nm | 2,630 | 2,630 | 2,985 |
| at speed | rpm | 1,100–1,600 | 1,100–1,600 | 1,100–1,600 |
| Lowest specific fuel consumption | g/kWh | 197 | 206 | 199 |
| Classifiable | | ✓ | ✓ | ✓ |
| Exhaust gas status | | IMO Tier II, 97/68/EC | IMO Tier II, EPA Tier 3, RCD 2013/53/EC, 97/68/EC | IMO Tier II, 97/68/EC |

1) The rating is according to DIN 3046/1



Dimensions

| Type designation | | LE 421/424/431 |
|---|----|----------------|
| A-Overall width | mm | 1,153 |
| B-Overall length | mm | 1,745 |
| C-Overall height | mm | 1,243 |
| D-Top of engine to crankshaft centre | mm | 765 |
| E-Length of engine from front end to edge of flywheel housing | mm | 1,243 |
| Average weight of engine ready for installation (dry) | kg | 1,780 |

For detailed examinations of installation dimensions, please order drawings from our factory.