

## Technical data

### DC13 072A, 326-406 kW / 373-460 kVA (engine ref. 02-11)

| Emission compliance           | Fuel injection system |
|-------------------------------|-----------------------|
| Fuel optimized, non-compliant | Unit injectors, PDE   |

|                                                                 | 1500 rpm (50 Hz) |      | 1800 rpm (60 Hz) |      | Unit   |
|-----------------------------------------------------------------|------------------|------|------------------|------|--------|
|                                                                 | PRP              | ESP  | PRP              | ESP  |        |
| Gross power                                                     | 326              | 356  | 372              | 406  | kW     |
|                                                                 | 373              | 408  | 421              | 460  | kVA    |
| Gross torque                                                    | 2075             | 2266 | 1974             | 2154 | Nm     |
| Fuel consumption                                                |                  |      |                  |      |        |
| full load <b>69 L/hr</b>                                        | 182              | 183  | 188              | 191  | g/kWh  |
| 3/4 load <b>52 L/hr</b>                                         | 183              | 184  | 187              | 187  | g/kWh  |
| 1/2 load <b>35 L/hr</b>                                         | 188              | 187  | 194              | 192  | g/kWh  |
| Heat rejection                                                  |                  |      |                  |      |        |
| to coolant                                                      | 105              | 111  | 115              | 125  | kW     |
| to exhaust gas                                                  | 207              | 229  | 251              | 283  | kW     |
| to charge air                                                   | 50               | 59   | 72               | 83   | kW     |
| to surrounding air                                              | 25               | 27   | 29               | 32   | kW     |
| Air consumption                                                 | 25               | 27   | 32               | 33   | kg/min |
| Air temperature                                                 |                  |      |                  |      |        |
| upstream of charge air cooler                                   | 156              | 169  | 180              | 195  | °C     |
| downstream of charge air cooler                                 | 40               | 43   | 48               | 49   | °C     |
| Pressure in intake manifold                                     | 1.6              | 1.8  | 1.8              | 2.0  | bar    |
| Pressure drop in charge air cooler                              | 0.10             | 0.10 | 0.15             | 0.15 | bar    |
| Exhaust flow                                                    | 26               | 28   | 33               | 35   | kg/min |
| Exhaust temperature                                             | 475              | 485  | 457              | 484  | °C     |
| Step load performance                                           |                  |      |                  |      |        |
| (According to class G2.<br>See section 2 for more information.) | 85               | 71   | 87               | 80   | %      |
|                                                                 | 278              | 257  | 328              | 328  | kW     |

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### Cooling performance

Cooling package 1.1 m<sup>2</sup>, fan Ø813, ratio 1:0.9

|                       | 1500 rpm (50 Hz) |     |    |     |     |    | 1800 rpm (60 Hz) |     |     |     |     |     |     |     |
|-----------------------|------------------|-----|----|-----|-----|----|------------------|-----|-----|-----|-----|-----|-----|-----|
|                       | PRP              |     |    | ESP |     |    | PRP              |     |     |     | ESP |     |     |     |
| Air-on temp* (°C)     | 48               | 57  | 64 | 44  | 54  | 61 | 50               | 54  | 58  | 62  | 46  | 50  | 56  | 60  |
| Airflow (kg/s)        | 5.5              | 7   | 9  | 5.5 | 7   | 9  | 6.5              | 8   | 9.5 | 11  | 6.5 | 8   | 9   | 11  |
| Restriction (Pa)      | 200              | 150 | 90 | 200 | 150 | 90 | 300              | 250 | 190 | 130 | 300 | 250 | 190 | 130 |
| Fan power losses (kW) | 6                |     |    |     |     |    | 10               |     |     |     |     |     |     |     |

\*Based on engine coolant temperature 105°C.