## Foundation specifications for

93800050148\_V09\_en\_GB Engine power, mechanical Special equipment

## MTU 12V4000 GS

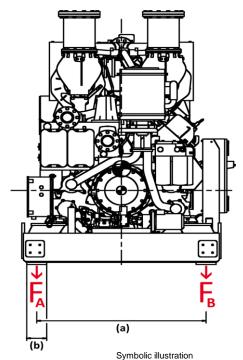
GG12V4000A1



kW 1560

| Genset  |       | Value      |
|---|-------|------------|
| Engine type   | -     | 12V4000L64 |
| Engine speed  | 1/min | 1500       |
| Torque  | kNm   | 9.9        |
| Genset weight   | kg    | 14500      |
| Distance of resilient mats (a)                        | mm    | 1300       |
| Number of resilient mats                              | -     | 6          |
| Gear ratio of transmission                            | -     |            |
| Generator   |       |            |
| Voltage   | V     | 6300       |
| Rating power (temperature rise class F) 11)           | kVA   | 2148       |
| Engine speed  | 1/min | 1500       |
| Subtransient reactance                                | %     | 16.0       |
| Safety coefficient                                    | -     | 1.5        |
| Short-circuit torque                                  | kNm   | 160.8      |
| Static load on foundation (weight)                    |       |            |
| Genset load   | kN    | 142.2      |
| Load per side   | kN    | 71.1       |
| Load per resilient mat                                | kN    | 23.7       |
| Dynamic load on foundation (imbalance)                |       |            |
| Load per resilient mat                                | kN    | 0.5        |
| Load on foundation imposed by short-circuit torque 5) |       |            |
| Load imposed by short-circuit torque                  | kN    | 123.7      |
| Overall load on foundation                            |       |            |
| Load on A side  | kN    | 194.8      |
| Load on B side  | kN    | -52.6      |
| ATTENTION:  |       |            |

The maximum admissible height difference of the individual support surfaces is ± 2 mm over 3 m foundation length.



## Important information

- 1) The design of the foundation or the load-bearing ceiling (planning, quality, reinforcement etc.) is not pert of the scope of delivery. We recommend to source this scope of work to an experienced architect and/or construction company.
- 2) The foundation shall be made of high-quality concrete, if required steel concrete. The concrete shall be poured in a single, continuous operation. The foundation surface shall be screeded in longitudinal and transverse directions using a plate and a level but not corrected by plastering.
- 3) All MTU engines provide full theoretical mass balance.
- 4) Based on the measurement results, the dynamic load resulting from imbalance and transferred from the base frame to foundation was determined as max. 2 % of the static foundation load.
- 5) The stated loads are to be considered for a two-pole short-circuit torque of the generator. This load acts regardless of the direction of rotation alternately with the rotation frequency on both base frame sides (A + B) and is decayed after approx. 0.5 sec.
- 6) It is recommended to mount the genset on resilient mats in order to reduce structure-borne noise. The exact arrangement is specified in the planning drawings. The length I of the resilient mat depends on the admissible load.

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