

## Foundation specifications for

93800050453\_V07\_en\_GB  
 Engine power, mechanical  
 Special equipment

## MTU 16V4000 GS

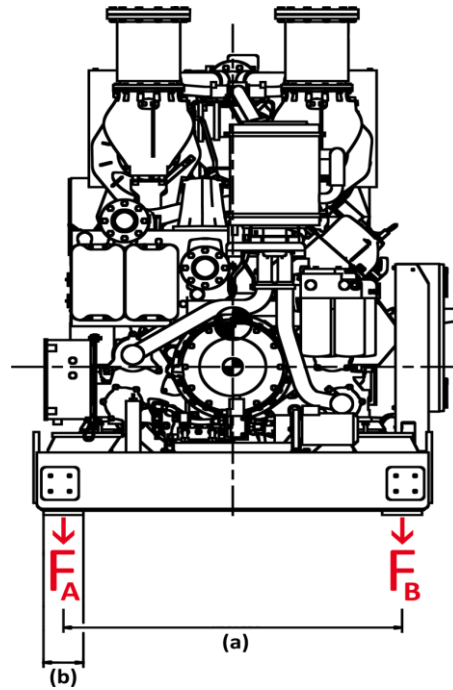
GG16V4000A1



kW	2080
-	

Genset		Value
Engine type	-	16V4000L64
Engine speed	1/min	1500
Torque	kNm	13.2
Genset weight	kg	19750
Distance of resilient mats (a)	mm	1530
Number of resilient mats	-	6
Gear ratio of transmission	-	--
Generator		
Voltage	V	10500
Rating power (temperature rise class F) <sup>11)</sup>	kVA	2900
Engine speed	1/min	1500
Subtransient reactance	%	14.5
Safety coefficient	-	1.5
Short-circuit torque	kNm	236.5
Static load on foundation (weight)		
Genset load	kN	193.7
Load per side	kN	96.8
Load per resilient mat	kN	32.3
Dynamic load on foundation (imbalance)		
Load per resilient mat	kN	0.6
Load on foundation imposed by short-circuit torque <sup>5)</sup>		
Load imposed by short-circuit torque	kN	154.6
Overall load on foundation		
Load on A side	kN	251.4
Load on B side	kN	-57.8

- ATTENTION:**
- The maximum admissible height difference of the individual support surfaces is  $\pm 2$  mm over 3 m foundation length.



Symbolic illustration

### Important information

- The design of the foundation or the load-bearing ceiling (planning, quality, reinforcement etc.) is not part of the scope of delivery. We recommend to source this scope of work to an experienced architect and/or construction company.
- 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.
- All MTU engines provide full theoretical mass balance.
- 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.
- 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.
- 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 l of the resilient mat depends on the admissible load.