Foundation specifications for

93800050156_V06_en_GB Engine power, mechanical Special equipment

MTU 16V4000 GS

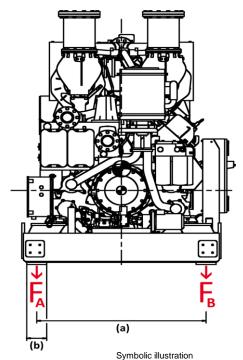
GG16V4000A1



kW 1760

France		
Engine type	-	16V4000L33
Engine speed	1/min	1500
Torque	kNm	11.2
Genset weight	kg	15500
Distance of resilient mats (a)	mm	1300
Number of resilient mats	-	6
Gear ratio of transmission	-	
Generator		
Voltage	V	400
Rating power (temperature rise class F) 11)	kVA	2280
Engine speed	1/min	1500
Subtransient reactance	%	13.0
Safety coefficient	-	1.5
Short-circuit torque	kNm	223.8
Static load on foundation (weight)		
Genset load	kN	152.1
Load per side	kN	76.0
Load per resilient mat	kN	25.3
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	172.2
Overall load on foundation		
Load on A side	kN	248.2
Load on B side	kN	-96.2
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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