Brushless Synchronous Generator AMS 1250A LF

Name/Designation: The AMS 1250A LF Generator is used for converting shaft mechanical energy into three-phase electrical energy, with adaptation to the voltage and frequency levels of the receiving power system.

SPECIFICATION AMS 1250A LF	
PARAMETERS	DATA
1	2
Manufacturer	ABB
Type	AMS 1250A LF
Rated powert, kW	56250
Leading power factor (overexcited)	0,80
Voltage, V	10500 (±5%)
Frequescy, HZ	50 (±2%)
Speed Rotation/min	1500
Current strength, A	3093
Exciter	GLC 600
Protection Class	IP54
Rated excitation current, A	13
Rated excitation voltage, V	83
Excitation Power Supply, V	0-300
Excitation Power Supply, A	7
Excitation voltage rise time from rated to 0.95 of ceiling voltage, sec	1,8
Generator weight, kg	73000
General description AMS 1250A LF	
The ABB alternating current generator is a 4-pole salient-pole synchronous AC generator. The generator features a compact welded steel construction.	
The small distance between bearing centers and the presence of rigid bearing supports at the central point of each bearing minimizes the vibration level. Traditionally, split-sleeve journal bearings are used. Easy replacement of bearing liners is provided.	
An explicit-pole rotor is designed to operate at a rotational frequency below the first critical speed under unbalanced reaction with a safety margin. Such a rotor design features very high heat capacity.	
Brushless excitation is provided by a rotating exciter installed on the main shaft outside the bearing on the side opposite the drive. The excitation power is taken from a permanent magnet generator, which is driven by the generator's main shaft. The equipment is easily accessible for inspections.	
The terminal box is a steel structure mounted on the side of the generator. It houses the generator terminals, busbars, as well as the neutral and line equipment.	
Required documentation	
Generator datasheet AMS 1250A LF	
Operation and Maintenance Manual AMS 1250A LF	
Generator test reports AMS 1250A LF	
Warranty requirements	
12 months from delivery to site	