Nr.	Test type	Content
1	Verification of the technical documentation	- Data sheet - Connection diagram
2	Geometric check	According to DIN EN 50347
3	Winding resistance measurement	The resistances of the single phases are measured with an ohmmeter.
4	Additional devices	Checking the completeness and functionality of the PT100 and heater.
5	Rotor voltage (slipring motor)	The rotor voltage will measured at the terminals K-L-M.
6	Checking the direction of rotation	The motor will be delivered in accordance to DIN EN 60034-1, this means it has a right rotating field.
7	Heat run test with output filter	The heat run test will carried out in the specified operating mode.
8	Heat run test without output filter up to 600kW	The heat run test will carried out in the specified operating mode
9	Heat run test with output filter at an ambient temperature higher than 45°C	The heat run test will carried out in the specified operating mode
10	Heat run test without output filter up to 600kW at an ambient temperature higher than 45°C	The heat run test will carried out in the specified operating mode.
11	Measurement of the efficiency classes of line operated AC motors. According to DIN EN 60034-30	Measurement of the efficiency
12	Temperature monitoring	- ambient temperature - winding (if possible) - bearing drive end - surface of motor housing - bearing non drive
13	Load test	Torque values at load points with 25%, 50% and 100% will be checked.These values are documented in the test report.
14	Overload, Overcurrent test	Depending on the classification will be charged with 125% or 160%. These values are documented in the test report.
15	No load curve (No load losses and no load current)	The values are documented in the test report.
16	Overspeed test	Proof of mechanical strength, ist to be carried out at 1,2-times of nominal frequency.

17	High-voltage test	A test voltage will be applied between the winding and motor housing.
18	Insulation resistance measurement	An insulation resistence test of the winding parts will be checked against each other.
19	Vibration measurement	Performed in no-load conditions. The values are documented in the test report.
20	Noise level Measurement - Bearing check	The acoustic quality control is carried out by listening to the engine and bearing noises in no-load mode and during operation.

For further question according the tests bench please do not hesitate to contact our team.

mailto:verkauf@woelfer-motoren.com