

Technical Documentation



LOW VOLTAGE THREE PHASE TEFC CAGE MOTORS IE3 Premium Efficiency

IE316EN

Mission, Vision, Targets



Our electric motors and generators are optimized in accordance with our client's technical and economical requests. Our clients will receive from us, within a very short notice, most advanced and high quality technical solutions of electric motors, generators, electric drives and complete technical solutions of small and middle sized hydroelectric power plants, along with economically most favourable conditions.

We are constantly moving your ideas. We are not just manufacturing motors and generators, we turn ambitious concepts of our clients into advanced, innovative and reliable products, which are unique and future oriented. Our reliability, creativity and flexibility will assist our clients in achieving their goals.

Keeping track with newest technological and technical solutions, our products are being constantly developed and therefore we are improving all our activities aimed to fulfil our client's requests. Our view of the future is oriented towards development of high power and big sized electric motors, hydrogenerators for small and middle sized hydroelectric power plants, as well as electric motors designed for extreme working conditions and most complex technical requirements.

QUESTIONNAIRE FOR THE OFFER OF ASYNCHRONOUS ELECTRIC MOTORS



Enquiry Number: _____

Customer: _____

ITEM: _____

Qty: _____

A MOTOR DATA

1 Motor type: Three phase

2 Rotor type: Squirrel cage: Slip-ring:

3 Rated output: $P_N =$ _____ kW

4 Rated voltage $U_N =$ _____ V Connection: Star Delta

5 Rated frequency: $f_N =$ _____ Hz

6 Rated speed: $n_N =$ _____ rpm

7 Insulation class F B H

8 Duty type: S1 S2 S3 S4 S5 S6 S7 S8 S9 S10
 ED %
 starts /h _____ min _____ J_m _____ kgm^2

9 Standard: IEC _____ or _____

10 Cooling method: IC _____

11 Mounting arrangement: IMB3 IMB5 or _____

12 Protection degree: Motor IP: _____ Terminal box IP: _____

13 Sense of rotation (DE side view): CW CCW Both

14 Motor brake: yes no
 Brake torque: _____ Nm
 Brake voltage: _____ V/Hz _____ V,DC

15 Rotor data for slip-ring motors: $U_R =$ _____ V $I_R =$ _____ A ot _____

B DATA ABOUT THE DRIVEN MACHINE

1 Type: _____

2 Required power: _____

3 Required speed: _____

4 Load torque characteristic:
 Constant Squared or _____
 Speed %: 0 25 50 75 100
 Torque Nm: _____

5 Moment of inertia referred to motor shaft: $J =$ _____ kgm^2

6 Driven machine special data: _____

C AMBIENT CONDITIONS

1 Ambient temperature: _____ °C

2 Relative humidity: _____ %

3 Altitude (above sea level): _____ m

4 Specific ambient conditions: _____

D POWER TRANSMISSION AND STARTING CONDITIONS

1 Coupling type: _____

2 Starting: _____

3 Number of consecutive startings:
 Hot state: _____ per hour Cold state: _____ per hour
 _____ per day _____ per day

E ADDITIONAL REQUESTS FOR MOTOR EXECUTION

1 Motor overload: _____ % P_N
 Duration: _____ min

2 Temperature rise: F B

3 Request for: vibration level _____ mm/s
 noise level (LpA) _____ dB (A)

4 Terminal box position (DE side view):
 left right top

5 Shaft load:
 axial load _____ N radial load _____ N

6 Variable speed drive: yes no
 Power of converter supplied motor _____ kW
 Converter type: _____
 Manufacturer: _____
 Speed range: from _____ up to _____ rpm

7 Speed sensor: Tacho gen. Resolver
 Encoder Absolute encoder
 Sensor Type: _____

8 Motor flange size: M _____ mm, P _____ mm, N _____ mm

9 Second shaft end: yes no
 DA= _____ mm EA= _____ mm

10 Other requests and limits: _____

F ADDITIONAL EQUIPMENT, SPARE PARTS AND DOCUMENTATION

1 Winding temperature protection: PTC _____, _____ per phase
 Pt100, _____ per phase

2 Bearing temperature sensor Pt100, _____ per bearing

3 Anti-condensation heaters yes _____ V

4 Packaging: standard
 oversea

H CUSTOMER

1 Company: _____

2 Address: _____

3 City: _____

4 Country: _____

5 Person: _____

6 Telefon / Fax: _____

7 e-mail: _____

Note:

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