



# DATA SHEET JEMCO



الکتروموتور ۳۵۵ کیلووات ۱۰۰۰ دور ماشینهای الکتریکی جوبن (جمکو)

## Subject: Medium voltage squirrel cage induction motors

|                         |      |                                      |      |                    |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
|-------------------------|------|--------------------------------------|------|--------------------|--|---------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|------|----------------------------------------------------------------------------------------|
| Customer                |      |                                      |      | Manufacturer       |  |         |  | Jemco                                                                                                                                                                                                                                                                |  |         |      |                                                                                        |
| Motor Type              |      |                                      |      | YJS450-6           |  |         |  | Average sound pressure level                                                                                                                                                                                                                                         |  | No load | load |                                                                                        |
| Frame Size              |      | 450                                  |      | Number of poles    |  | 6       |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| Mounting design         |      | IM B3                                |      | Type of encloser   |  | IP55    |  | Direction of rotation                                                                                                                                                                                                                                                |  |         |      | both <input type="checkbox"/> CW <input type="checkbox"/> CCW <input type="checkbox"/> |
| EX-Protective syster    |      |                                      |      | safe               |  |         |  | Bearing DE/NDE                                                                                                                                                                                                                                                       |  |         |      | 6324-C3 / 6322-C3                                                                      |
| Duty type               |      | S1                                   |      | Starting           |  |         |  | Lubrication                                                                                                                                                                                                                                                          |  |         |      | Li Base Grease                                                                         |
| Ambient Temperture      |      |                                      |      | 40 C               |  |         |  | Type of lubrication                                                                                                                                                                                                                                                  |  |         |      | K3N Din 51825                                                                          |
| Thermal classification  |      | F                                    |      | Tempertur rise     |  | B       |  | typical Test                                                                                                                                                                                                                                                         |  |         |      | IEC60034-1                                                                             |
| Term motor protection   |      |                                      |      | optional           |  |         |  | outline dimention drawing No.                                                                                                                                                                                                                                        |  |         |      | available                                                                              |
| Retad output            |      |                                      |      | 355KW              |  |         |  | Location of Terminal Box                                                                                                                                                                                                                                             |  |         |      | optional                                                                               |
| rated voltage           |      |                                      |      | 6000V+-5%          |  |         |  | Additional Sensor                                                                                                                                                                                                                                                    |  |         |      | optional                                                                               |
| connection              |      | DELTA                                |      |                    |  |         |  | space heater                                                                                                                                                                                                                                                         |  |         |      | optional                                                                               |
| Ferquency               |      | 50 HZ.                               |      | speed              |  | 990 rpm |  | Net weight approx.                                                                                                                                                                                                                                                   |  |         |      | 3700 Kg+-10%                                                                           |
| Rated current           |      |                                      |      | 42.7               |  | A       |  | painting                                                                                                                                                                                                                                                             |  |         |      | RAL 7032                                                                               |
| Starting Current        |      | (I <sub>A</sub> /I <sub>N</sub> )    |      | 5.57               |  |         |  | Termal Protection                                                                                                                                                                                                                                                    |  |         |      | optional                                                                               |
| Power Factor            |      | 4/4                                  |      | 3/4                |  | 1/2     |  | Additional Sensor                                                                                                                                                                                                                                                    |  |         |      | optional                                                                               |
|                         |      | 0.85                                 |      |                    |  |         |  | Frame Material                                                                                                                                                                                                                                                       |  |         |      | Structural Steel                                                                       |
| Efficiency              |      | 4/4                                  |      | 3/4                |  | 1/2     |  | Additional data and remarks:<br>1- permisslbie percentage Voltage imbalance not greater than1%<br>2-Cold Starting per Hour(3)<br>3- Hot Starting per Hour(2)<br>4- Maximum Hot starting Time not more than 60 second<br>5- Maximum cold Time not more than 80 second |  |         |      |                                                                                        |
|                         |      | 93.6                                 |      |                    |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| Rated torque            |      | (T <sub>N</sub> )                    |      |                    |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| starting torque         |      | (T <sub>s</sub> /T <sub>N</sub> )=   |      | 0.96               |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| Break-down torque       |      | (T <sub>max</sub> /T <sub>N</sub> )= |      | 1.81               |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| Rotor class/material    |      | squirrel cage                        |      | copper             |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| Rotor voltage           |      |                                      |      | Rotor current      |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| Rotor inertia           |      |                                      |      | 732 Kgm2           |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| cooling method          |      |                                      |      | IC411              |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| altitude of instalation |      |                                      |      | 1000m              |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
|                         | Date |                                      | Name | Tolerances acc. To |  |         |  | NC.                                                                                                                                                                                                                                                                  |  |         |      |                                                                                        |
| Designed                |      |                                      |      |                    |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |
| checked                 |      |                                      |      |                    |  |         |  |                                                                                                                                                                                                                                                                      |  |         |      |                                                                                        |

