

# FIMET MOTORI & RIDUTTORI S.p.A.

## MOTORE ASINCRONO TRIFASE THREE-PHASE INDUCTION MOTOR

### GENERAL DATA

|                   |                   |    |
|-------------------|-------------------|----|
| Quantity          | 1                 |    |
| Customer          | R.E.M. S.r.l.     |    |
| Manufacturer      | FIMET             |    |
| <b>Motor type</b> | <b>HVM 355M 4</b> |    |
| Amb. Temp.        | -15 +40           | °C |
| Altitude          | < 1000            | m  |
| Standards, Codes  | IEC34 ; IEC72     |    |

### MECHANIC. CHARACT.

|                                             |                |
|---------------------------------------------|----------------|
| Rotor inertia J [kgm <sup>2</sup> ]         | 4,9            |
| Weight [kg]                                 | 2130           |
| Main terminal box ( <i>VIEWED ON D.E.</i> ) | top            |
| Terminal box rotation                       | 90°            |
| N° of Terminals                             | 3              |
| Cable gland                                 | yes            |
| Ground terminal                             | yes            |
| Protection Degree Enclosure                 | IP55           |
| Cooling Method                              | IC 411         |
| IM                                          | 1001 (B3)      |
| Frame Material                              | cast iron      |
| Shaft extension / tolerance range           | φ 110 m6 x 210 |
| Paint finish                                | RAL 6011       |
| Protecting treatments Humide Climate        | n.a.           |
| Painting Thikness                           | > 80 mm        |
| Direction of rotation                       | both           |
| Bearing D-end Type                          | 6321 C3        |
| Bearing N-end Type                          | 6321 C3        |
| Estimated Bearing Life-Time                 | 40.000         |
| Grease                                      | UNIREX N3      |

### ELECTRICAL CHARACT.

|                                                            |             |
|------------------------------------------------------------|-------------|
| <b>Poles Number</b>                                        | <b>4</b>    |
| <b>Rated input voltage [V]</b>                             | <b>3000</b> |
| <b>Rated output power [kW]</b>                             | <b>250</b>  |
| <b>Frequency [Hz]</b>                                      | <b>50</b>   |
| <b>Rated speed [rpm]</b>                                   | <b>1485</b> |
| <b>Rated Current [Amps]</b>                                | <b>58</b>   |
| <b>Rated Torque [Nm]</b>                                   | <b>1608</b> |
| <b>Over Load Torque [%]</b>                                | <b>IEC</b>  |
| <b>Effeciency [%]</b>                                      | <b>96,2</b> |
| <i>Load operating</i>                                      | 4/4         |
| <b>Power Factor [cosphi]</b>                               | <b>0,86</b> |
| <i>Load operating</i>                                      | 4/4         |
| Rating - duty<br>(continuous)                              | S1          |
| Thermal Class                                              | F           |
| Temperature rise                                           | B           |
| Is / In [%]                                                | 520         |
| <i>starting current / rated current</i>                    |             |
| Ma / Mn [%]                                                | 80          |
| <i>Starting torque / rated torque</i>                      |             |
| Mmax / Mn [%]                                              | 210         |
| <i>Breakdown torque / rated torque</i>                     |             |
| Connection                                                 | Y           |
| LpA [dB(A)] + tollerance<br>(average sound pressure level) | 80          |

### AUXILIARY EQUIP.

|                                                  |              |
|--------------------------------------------------|--------------|
| Auxiliary Terminal Box                           | n.a.         |
| Stator Winding Probes                            | <b>3 PTC</b> |
| Bearing Probes                                   | n.a.         |
| Anti-condensation Heater ( <i>single phase</i> ) | n.a.         |
| (connected in main terminal box)                 | n.a.         |

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