

## Data sheet for three-phase Squirrel-Cage-Motors



Ordering data : 1LA7073-2AA12

without (standard)

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Electrical data:

|                                  |                                         |        |             |        |       |       |
|----------------------------------|-----------------------------------------|--------|-------------|--------|-------|-------|
| Rated motor voltage :            | (1) 230 VD/400 VY, 50 Hz, 460 VY, 60 Hz |        |             |        |       |       |
| Frequency :                      | 50 Hz                                   |        | 60 Hz       |        |       |       |
| Rated power :                    | 0.55 kW                                 |        | 0.63 kW     |        |       |       |
| Rated motor speed :              | 2800 1/ min                             |        | 3400 1/ min |        |       |       |
| Rated motor torque :             | 1.9 Nm                                  |        | 1.8 Nm      |        |       |       |
| Rated motor current (IE) :       | VD                                      | VY     |             | VY     |       |       |
|                                  | 2.37 A                                  | 1.36 A |             | 1.36 A |       |       |
| Starting / rated motor current : | 4.3                                     |        | 4.9         |        |       |       |
| Breakdown / rated motor          | 2.6                                     |        | 2.5         |        |       |       |
| Starting / rated motor torque :  | 2.5                                     |        | 2.6         |        |       |       |
|                                  | 4/4                                     | 3/4    | 2/4         | 4/4    | 3/4   | 2/4   |
| Efficiency %                     | 71.0%                                   | 71.0%  | 67.0%       | 71.0%  | 71.0% | 67.0% |
| Power factor :                   | 0.82                                    | 0.77   | 0.67        | 0.82   | 0.77  | 0.67  |
| Efficiency class :               | -/-                                     |        | -/-         |        |       |       |

### Mechanical data:

|                                          |                                            |          |
|------------------------------------------|--------------------------------------------|----------|
| Sound pressure level 50Hz/60Hz (load) :  | 52 dB(A)                                   | 56 dB(A) |
| Moment of inertia :                      | 0.00041 kg*m <sup>2</sup>                  |          |
| Bearing DE :                             | 6202 2ZC3                                  |          |
| Bearing NDE :                            | 6202 2ZC3                                  |          |
| Type of bearing :                        | Floating bearings pre-loaded DE (standard) |          |
| Condensate drainage holes :              | No                                         |          |
| Regreasing device :                      | No                                         |          |
| Lubricants :                             | Esso Unirex N3                             |          |
| Grease lifetime/Relubrication interval : | 40000 h                                    |          |
| Quantity of grease for relubrication :   | null g                                     |          |
| External earthing terminal :             | No                                         |          |
| Coating :                                | Special paint finish RAL 7030 stone gray   |          |

### Environmental conditions:

|                                |                        |
|--------------------------------|------------------------|
| Ambient temperature :          | -20 °C - +40 °C        |
| Altitude above sea level :     | 1000 m                 |
| Standards and specifications : | IEC, DIN, ISO, VDE, EN |

### General data:

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Frame size                                   | 071 M                                   |
| Type of construction :                       | (2) IM B14 / V18 / V19, standard flange |
| Weight in kg, without optional accessories : | 6.00 kg                                 |
| Frame material :                             | Aluminum                                |
| Degree of protection :                       | IP 55                                   |
| Method of cooling, TEFC :                    | IC 411                                  |
| Vibration class :                            | A (Standard)                            |
| Insulation :                                 | 155(F) to 130(B)                        |
| Duty type :                                  | S1 - continuous duty                    |
| Direction of rotation :                      | Bi-directional                          |

### Terminal box:

|                                  |                      |
|----------------------------------|----------------------|
| Material of terminal box :       | Aluminum             |
| Type of terminal box :           | gk 030               |
| Contact screw thread :           | M4                   |
| Max. cross-sectional area :      | 1.50 mm <sup>2</sup> |
| Cable diameter from ... to ... : | 9.00 mm - 17.00 mm   |
| Cable entry :                    | 1xM25x1,5-1xM16x1,5  |
| Cable gland :                    | 2 plugs              |

### Special design: