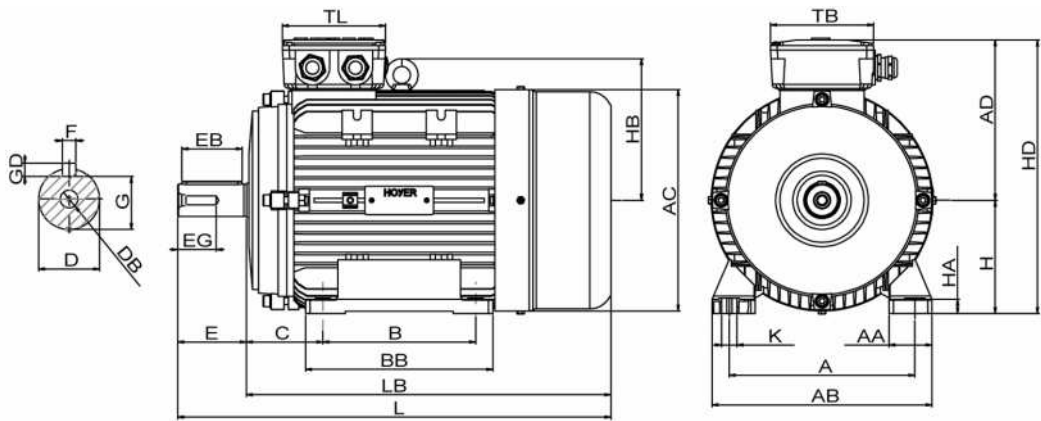


Data Sheet

Itemnumber....: 3240901109



|          |          |          |         |         |         |          |          |
|----------|----------|----------|---------|---------|---------|----------|----------|
| A = 140  | AC = 175 | BB = 155 | DB = M8 | EG = 24 | GD = 7  | HD = 222 | LB = 312 |
| AA = 35  | AD = 132 | C = 56   | E = 50  | F = 8   | H = 90  | K = 12   | TB = 100 |
| AB = 177 | B = 125  | D = 24   | EB = 40 | G = 20  | HA = 13 | L = 362  | TL = 100 |

|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Version</b><br>Type.....: HMA2 90L-4<br>Design.....: Induction motor<br>Standard series.....: IEC 60034<br>Phase / Voltage range.....: 3~ / Low                                                                                                                                                                | <b>Mechanical design</b><br>Frame size.....: 90<br>Mounting.....: B3<br>Rain cap.....: No<br>Protection class.....: IP55<br>Cooling method.....: IC411/TEFC<br>External grounding.....: Yes<br>Drain hole.....: Yes<br>Frame material.....: Aluminium<br>Material approval.....: None<br>Shaft.....: IEC Standard<br>Key.....: Closed key<br>Balancing.....: Half key balancing<br>Vibration class.....: Grade-A | <b>Bearing</b><br>DE Bearing.....: 6205-ZZ/C3<br>NDE Bearing.....: 6205-ZZ/C3<br>Fixed bearing.....: DE                                                                                                                                                                        |
| <b>Electrical design</b><br>Efficiency.....: IE2<br>Pole.....: 4<br>Power at 50 Hz (kW).....: 1,50<br>Hz.....: 60 (60 Hz output)<br>Voltage.....: 440VY 60 Hz<br>Winding voltage.....: 230VD/400VY 50 Hz<br>Power output (kW).....: 1,74<br>Duty.....: S1<br>Insulation class.....: F<br>Temperature rise.....: B | <b>Environment condition</b><br>Ambient temp. min. (°C)....: -20<br>Ambient temp. max. (°C)....: 45<br>Altitude (mtr up to).....: 1000                                                                                                                                                                                                                                                                           | <b>Terminal box</b><br>Tbox position.....: Top<br>Cable entry direction.....: Right (from DE)<br>Cable entry<br>Main.....: 1 x M20x1,5<br>Ø8-13mm metal<br>Accessory.....: 1 x M20x1,5<br>Metal blindcap<br>Connection type.....: Star (Y)<br>Terminal board thread.....: 6-M4 |
| <b>Motor protection</b><br>Thermal protection main.....: PTC 3x 155 dgr<br>Thermal protection second...: None<br>Space heater.....: None<br>Temperature detector.....: No<br>SPM.....: No<br>IR wire.....: No<br>Tropical insulation.....: Yes                                                                    | <b>Test values</b><br>Rotor inertia (kgm²).....: 0,0041<br>Noise level (dB(A)).....: 58<br>No load current (A).....: 1,70<br>Winding resist. (ohm).....: 2,64<br>Starting time (sec.).....: 0,00<br>Temp. rise winding (K).....: 67<br>Temp. rise surface (K).....: 59                                                                                                                                           |                                                                                                                                                                                                                                                                                |
| <b>Explosion protection</b><br>According to.....: None                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                |
| <b>General</b><br>Direction of rotation.....: CW<br>Painting.....: RAL 9005 Gloss 10<br>Nameplate.....: Multivoltage + VFD<br>Special packing.....: No<br>Special requirements.....: No                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                |

|                                     |                |                |                |                |
|-------------------------------------|----------------|----------------|----------------|----------------|
| Rated power (kW) . . . . .          | 1,50           | 1,46           | 1,80           | 1,74           |
| Frequency (Hz) . . . . .            | 50             | 50             | 60             | 60             |
| Voltage (V) . . . . .               | 230 400        | 220 380        | 280 480        | 440            |
| Connection . . . . .                | D Y            | D Y            | D Y            | Y              |
| Full load current (A) . . . . .     | 5,65 3,25      | 5,85 3,35      | 5,65 3,25      | 3,35           |
| Speed (rpm) . . . . .               | 1440           | 1440           | 1730           | 1730           |
| Power factor cos(phi) . . . . .     | 0,81           | 0,82           | 0,81           | 0,81           |
| Efficiency, 100/75/50 (%) . . . . . | 82,9/83,8/82,8 | 82,9/83,8/82,8 | 82,9/83,8/82,8 | 81,7/82,7/81,6 |
| Ist/In . . . . .                    | 7,95           | 7,00           | 7,95           | 7,35           |
| Full load torque (Nm) . . . . .     | 9,95           | 9,65           | 9,95           | 9,65           |
| Tst/Tn . . . . .                    | 2,50           | 2,32           | 2,50           | 2,16           |
| Tmax/Tn . . . . .                   | 3,10           | 2,90           | 3,10           | 2,70           |
| Duty . . . . .                      | S1             | S1             | S1             | S1             |
| Ambient temp. (°C) . . . . .        | 40             | 45             | 40             | 45             |