

THREE-PHASE-ASYNCHRONOUS-MOTOR ACA 100 LB 4 /PHE

IE3AC10LB405N

General data

| | |
|--------------------------|-------------------------------|
| Type of motor | 3~ |
| Type designation | ACA |
| Frame size | 100 |
| Mounting | B3 |
| Frame execution | L |
| Frame material | Aluminium |
| Insulationclass | F/B |
| Terminal box location | top DE |
| Terminal box orientation | cable gland to the right side |
| Weight (kg) | 24.6 |
| Rotation Direction | right /left |
| Vibration level | A |
| Balancing method | half key |
| cooling type | IC411 |
| Executed acc. to | IEC 60034-1 |
| noise level | IEC 60034-9 |

Influential factors

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|--------------------------|---------------|
| Duty | S1 |
| Ambient temperature (°C) | -20 up to +40 |
| Height of location (m) | 1000 |

Electrical specification

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|---------------------------------------|------------|
| Power 1 50Hz (kW) | 3 |
| Power 1 60Hz (kW) | 3 |
| Frequency (Hz) | 50/60 |
| Voltage 50Hz (V) | 230/400 |
| Voltage 60Hz (V) | 265/460 |
| Voltage tolerance | +/-10% |
| Connection | Δ/Y |
| Poles | 4 |
| Efficiency 100% 50Hz (%) | 87,7 |
| Efficiency 75% 50Hz (%) | 87,7 |
| Efficiency 50% 50Hz (%) | 85,9 |
| Efficiency 100% 60Hz (%) | 89,5 |
| Efficiency 75% 60Hz (%) | 89,5 |
| Efficiency 50% 60Hz (%) | 87,7 |
| Power factor | 0,82 |
| Starting current factor (I_a/I_n) | 7,6 |
| Starting torque factor (M_a/M_n) | 2,3 |
| Breakdown torque (M_k/M_n) | 2,3 |
| Rated current 50Hz (A) | 10,47/6,02 |
| Rated current 60Hz (A) | 8,92/5,18 |
| Eff.Cl.50Hz | IE3 |
| Eff.Cl.60Hz | IE3 |

Mechanical data

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|---------------------------------------|---------------|
| Torque (Nm) | 19,97/16,64 |
| Rotation speed (1/min) | 1435/1722 |
| Bearing DE | 6206.ZZ.C3 |
| Bearing NDE | 6206.ZZ.C3 |
| Mounting of bearing DE | loose bearing |
| Mounting of bearing NDE | loose bearing |
| Bearing lifetime (h) | 20000 |
| allow. Radial load (X/2) | 1125 |
| allow. Radial load (X0) | 1250 |
| allow. Radial load (Xmax) | 1000 |
| allow. Axial load | 950 |
| allow. Axial load (V1) | 905 |
| Moment of inertia (kgm ²) | 0,0078 |

Motor properties

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|-------------------------------------|------------------------|
| Color | RAL7030 |
| Paint surface | shiny |
| Protection class | IP55 |
| Cable gland size (cable connection) | 1xM25x1,5 1xblind plug |
| Cable gland type | Standard |
| Shaft end (mm) | 28 x 60 |
| Shaft material | C45 |
| Specification NDE | Plastic fan |

Additional operating points

| | |
|------------------------------------|------------|
| Voltage operating point 2 | 265/460 |
| Power operating point 2 (kW) | 3.6 |
| Connection operating point 2 | Δ/Y |
| Frequency operating point 2 | 60 |
| Efficiency class operating point 2 | IE2 |

