

# BROOK CROMPTON

## TECHNICAL DATA SHEET

Three-phase asynchronous motor

MOTOR FRAME: Aluminium

Motor type:

WP-DA90SMX IE3 2P 1.5kW

Motor item number:

|                       |           |       |           |       |
|-----------------------|-----------|-------|-----------|-------|
| Rated power:          | 1,5       | kW    | 1,73      | kW    |
| Poles(Synch speed):   | 2p (3000) | r.p.m | 2p (3600) | r.p.m |
| Full load speed:      | 2880      | r.p.m | 3480      | r.p.m |
| Voltage:              | 230 / 400 | V     | 265 / 460 | V     |
| Frequency:            | 50        | Hz    | 60        | Hz    |
| Connection:           | Δ / Y     |       | Δ / Y     |       |
| Amps full load (FLA): | 5,25 / 3  | A     | 5,1 / 2,9 | A     |
| Amps no-load (NLA):   |           | A     |           | A     |

|                        |                |                      |                       |
|------------------------|----------------|----------------------|-----------------------|
| Enclosure:             | IP55           | Cable entries size:  | 1 x CM20              |
| Mounting:              |                | Winding protection:  | NO                    |
| Insulation Class:      | F              | Max. Altitude:       | 1000 m.a.s.l.         |
| Max. ambient temp.:    | 40 °C          | Heater:              | NO                    |
| Min. ambient temp.:    | -20 °C         | Shaft extension:     | 24x50 mm              |
| Max. temp. rise:       | 80 °C          | Weight:              | 16,5 kg               |
| Duty type:             | S1             | Painting:            | Manufacturer standard |
| Cooling form:          | IC411 (TEFC)   | Color:               | RAL 5021              |
| Bearing DE             | 6205 ZZ C3     | Box position:        | Top DE                |
| Bearing NDE            | 6203 ZZ CM     | Cable entry towards: | Right                 |
| Grease:                | Esso Unirex N3 | Cable type:          | N/A                   |
| Regreasing facilities: | NO             | Balance grade:       | Normal                |

|                   |                |
|-------------------|----------------|
| Efficiency class: | IE3            |
| Load data:        | 100% 75% 50%   |
| Efficiency:       | 84,2 84,8 82   |
| Power factor:     | 0,86 0,81 0,70 |

Sound pressure (1m): 66 dB(A)  
Resistance R20: 3,23 PH

|                         |           |                        |                      |
|-------------------------|-----------|------------------------|----------------------|
| Full load torque (FLT): | 5 Nm      | Pull out torque ratio: | 3,6 MK/MN            |
| Starting torque ratio:  | 3,4 MA/MN | Pull up torque:        | 3,6 MS/MN            |
| Starting current ratio: | 8,2 IA/IN | Rotor inertia WK2:     | 3,2 kgm <sup>2</sup> |

Special remarks:

### SPECIAL DATA FOR HAZARDOUS LOCATION MOTOR

|                           |                          |
|---------------------------|--------------------------|
| Hazardous classification: | Temp. Class:             |
| Certificate number:       | t <sub>E</sub> time: sek |

Special remarks: