

# BROOK CROMPTON

## TECHNICAL DATA SHEET

Three-phase asynchronous motor

MOTOR FRAME: Aluminium

Motor type: WP-DA100LRF IE3 6p 1,5kW  
Motor item number:

|                       |           |       |           |      |       |
|-----------------------|-----------|-------|-----------|------|-------|
| Rated power:          | 1,5       | kW    | 6p (1000) | 1,73 | kW    |
| Poles(Synch speed):   | 6p (1000) | r.p.m | 6p (1200) | 1155 | r.p.m |
| Full load speed:      | 960       | r.p.m | 1155      |      | r.p.m |
| Voltage:              | 230 / 400 | V     | 265       | 460  | V     |
| Frequency:            | 50        | Hz    |           | 60   | Hz    |
| Connection:           | Δ / Y     |       | Δ / Y     |      |       |
| Amps full load (FLA): | 7,6 / 4,4 | A     | 7,3       | 4,2  | A     |
| Amps no-load (NLA):   |           | A     |           |      | A     |

|                        |                |                      |                       |
|------------------------|----------------|----------------------|-----------------------|
| Enclosure:             | IP55           | Cable entries size:  | 2 x M20               |
| 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:     | 28x60 mm              |
| Max. temp. rise:       | 80 °C          | Weight:              | 29,5 kg               |
| Duty type:             | S1             | Painting:            | Manufacturer standard |
| Cooling form:          | IC411 (TEFC)   | Color:               | RAL 5021              |
| Bearing DE             |                | Box position:        | Top DE                |
| Bearing NDE            |                | Cable entry towards: | Right                 |
| Grease:                | Esso Unirex N3 | Cable type:          | N/A                   |
| Regreasing facilities: | NO             | Balance grade:       | Normal                |

|                   |                |                      |          |
|-------------------|----------------|----------------------|----------|
| Efficiency class: | IE3            | Sound pressure (1m): | 58 dB(A) |
| Load data:        | 100% 75% 50%   | Resistance R20:      | 2,13 PH  |
| Efficiency:       | 82,5 82,1 78,9 |                      |          |
| Power factor:     | 0,60 0,51 0,40 |                      |          |

|                         |           |                        |                        |
|-------------------------|-----------|------------------------|------------------------|
| Full load torque (FLT): | 15 Nm     | Pull out torque ratio: | 4,1 MK/MN              |
| Starting torque ratio:  | 3,5 MA/MN | Pull up torque:        | 3,6 MS/MN              |
| Starting current ratio: | 6,2 IA/IN | Rotor inertia WK2:     | 0,012 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: