

# BROOK CROMPTON

## TECHNICAL DATA SHEET

Three-phase asynchronous motor

MOTOR FRAME: **Cast Iron**

Motor type: **WP-DF160MM IE3 6p 7,5kW**  
Motor item number:

|                       |            |       |  |  |  |           |       |
|-----------------------|------------|-------|--|--|--|-----------|-------|
| Rated power:          | 7,5        | kW    |  |  |  | 8,6       | kW    |
| Poles(Synch speed):   | 6p (1000)  | r.p.m |  |  |  | 6p (1200) | r.p.m |
| Full load speed:      | 975        | r.p.m |  |  |  | 1175      | r.p.m |
| Voltage:              | 400 / 690  | V     |  |  |  | 460       | V     |
| Frequency:            | 50         | Hz    |  |  |  | 60        | Hz    |
| Connection:           | Δ / Y      |       |  |  |  | Δ         |       |
| Amps full load (FLA): | 16,6 / 9,6 | A     |  |  |  | 16,2      | A     |
| Amps no-load (NLA):   |            | A     |  |  |  |           | A     |

|                        |                 |    |  |  |  |                      |                       |
|------------------------|-----------------|----|--|--|--|----------------------|-----------------------|
| Enclosure:             | IP55            |    |  |  |  | Cable entries size:  | 2 x M32               |
| Mounting:              | IM B3 (IM 1001) |    |  |  |  | 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:     | 42x110 mm             |
| Max. temp. rise:       | 80              | °C |  |  |  | Weight:              | 121 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): | 59 dB(A) |
| Load data:        | 100% | 75%  | 50%  |  |  | Resistance R20:      | 1,1 PH   |
| Efficiency:       | 90   | 89,1 | 89,3 |  |  |                      |          |
| Power factor:     | 0,73 | 0,65 | 0,56 |  |  |                      |          |

|                         |     |       |  |  |  |                        |     |                  |
|-------------------------|-----|-------|--|--|--|------------------------|-----|------------------|
| Full load torque (FLT): | 73  | Nm    |  |  |  | Pull out torque ratio: | 1,6 | MK/MN            |
| Starting torque ratio:  | 1,7 | MA/MN |  |  |  | Pull up torque:        | 1,3 | MS/MN            |
| Starting current ratio: | 5,1 | IA/IN |  |  |  | Rotor inertia WK2:     | 0,1 | 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: