Issue 2, date 05.08.2008

BROOK CROMPTON

# TECHNICAL DATA SHEET

## Three-phase asynchronous motor

**MOTOR FRAME:** Cast Iron

*a company of* ATB Technology in Motion

**Motor type:** WU-DF80MM IE2 2P 1,1kW B3
**Motor item number:** 080W207301T

| | 50 HZ data | | | | 60 HZ data | |
|---|---|---|---|---|---|---|
| Rated power: | | 1,1 | kW | | | kW |
| Poles(Synch speed): | | 2p (3000) | r.p.m | | | r.p.m |
| Full load speed: | | 2880 | r.p.m | | | r.p.m |
| Voltage: | 230 / | 400 | V | | | V |
| Frequency: | | 50 | Hz | | | Hz |
| Connection: | Δ / | Y | | | | |
| Amps full load (FLA): | 4,1 / | 2,35 | A | | | A |
| Amps no-load (NLA): | | | A | | | |

| | | | | |
|---|---|---|---|---|
| Enclosure: | IP55 | | Cable entries size: | 1 x CM20 |
| Mounting: | IM B3 (IM 1001) | | Winding protection: | |
| Insulation Class: | F | | Max. Altitude: | 1000 m.a.s.l. |
| Max. ambient temp.: | +40 | °C | Heater: | no |
| Min. ambient temp.: | -20 | °C | Shaft extension: | 19x40 mm |
| Max. temp. rise: | 80 | K | Weight: | 15 kg |
| Duty type: | S1 | | Painting: | Argus |
| Cooling form: | IC411 (TEFC) | | Color: | RAL 5021 |
| Bearing DE | 6204 | ZZ CM | Box position: | Top NDE |
| Bearing NDE | 6003 | ZZ CM | Cable entry towards: | Right |
| Grease: | Lithium or Polyurea Base | | Cable type: | N/A |
| Regreasing facilities: | NO | | Balance grade: | Normal |

| Efficiency class: | IE2 | | |
|---|---|---|---|
| Load data: | 100% | 75% | 50% |
| Efficiency: | 79,6 | 80,7 | 78,6 |
| Power factor: | 0,84 | 0,77 | 0,65 |

Sound pressure (1m): 56 dB(A)
Resistance R20: 5,05 PH

| | | | | | |
|---|---|---|---|---|---|
| Full load torque (FLT): | 3,6 | Nm | Pull out torque ratio: | 2,7 | MK/MN |
| Starting torque ratio: | 2,8 | MA/MN | Pull up torque: | 2,4 | MS/MN |
| Starting current ratio: | 6,7 | IA/IN | Rotor inertia WK2: | 0,0013 | $kgm^2$ |

Special remarks:

### SPECIAL DATA FOR HAZARDOUS LOCATION MOTOR

| | |
|---|---|
| Hazardous classification: | Temp. Class: |
| | $t_E$ time: sek |
| Certificate number: | |

Special remarks: