

# BROOK CROMPTON

## TECHNICAL DATA SHEET

Three-phase asynchronous motor

MOTOR FRAME: Cast Iron flameproof

[www.tamel.pl](http://www.tamel.pl)

Produced by **Tamel S.A.** a company of



Motor type: **W-EF225MN 4P 45,0kW Ex d**

Motor item number:

|            |                       |                 |            |                 |
|------------|-----------------------|-----------------|------------|-----------------|
| 50 HZ data | Rated power:          | 45 kW           | 60 HZ data | 52 kW           |
|            | Poles(Synch speed):   | 4p (1500) r.p.m |            | 4p (1800) r.p.m |
|            | Full load speed:      | 1470 r.p.m      |            | 1775 r.p.m      |
|            | Voltage:              | 380-415 V       |            | 440-480 V       |
|            | Frequency:            | 50 Hz           |            | 60 Hz           |
|            | Connection:           | Δ               |            | Δ               |
|            | Amps full load (FLA): | 84,0-77,0 A     |            | 84,0-77,0 A     |
|            | Amps no-load (NLA):   | 27 A            |            |                 |

|                        |                |                      |                       |
|------------------------|----------------|----------------------|-----------------------|
| Enclosure:             | IP55           | Cable entries size:  | 1xCM40 + 1xCM20       |
| Mounting:              |                | 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:     | 60x140 mm             |
| Max. temp. rise:       | 80 K           | Weight:              | 421 kg                |
| Duty type:             | S1             | Painting:            | Manufacturer standard |
| Cooling form:          | IC411 (TEFC)   | Color:               | RAL 5021              |
| Bearing DE             | 6314 C3        | Box position:        | Top DE                |
| Bearing NDE            | 6314 C3        | Cable entry towards: | Right                 |
| Grease:                | Esso Unirex N3 | Cable type:          | N/A                   |
| Regreasing facilities: | YES            | Balance grade:       | Reduced               |

|                   |                |                      |          |
|-------------------|----------------|----------------------|----------|
| Efficiency class: |                | Sound pressure (1m): | 67 dB(A) |
| Load data:        | 100% 75% 50%   | Resistance R20:      | 0,12 PH  |
| Efficiency:       | 94,2 94,2 93   |                      |          |
| Power factor:     | 0,86 0,84 0,75 |                      |          |

|                         |           |                        |                       |
|-------------------------|-----------|------------------------|-----------------------|
| Full load torque (FLT): | 292 Nm    | Pull out torque ratio: | 3,2 MK/MN             |
| Starting torque ratio:  | 2,7 MA/MN | Pull up torque:        | 1,9 MS/MN             |
| Starting current ratio: | 7,7 IA/IN | Rotor inertia WK2:     | 0,65 kgm <sup>2</sup> |

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| Special remarks: |
| PTC 150 °C       |

### SPECIAL DATA FOR HAZARDOUS LOCATION MOTOR

|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| Hazardous classification: <b>Ex db eb IIB</b> | Temp. Class: <b>T4</b>          |
| Certificate number: <b>BAS02ATEX2115X</b>     | t <sub>E</sub> time: <b>sek</b> |

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| Special remarks: |
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