

# BROOK CROMPTON

## TECHNICAL DATA SHEET

Three-phase asynchronous motor

MOTOR FRAME: **Cast Iron**

a company of



Motor type: **W-DF250SN IE2 2P 55kW B3**  
Motor item number:

Rated power:	<b>55 kW</b>				<b>kW</b>
Poles(Synch speed):	<b>2p (3000) r.p.m</b>				<b>r.p.m</b>
Full load speed:	<b>2955 r.p.m</b>				<b>r.p.m</b>
Voltage:	<b>400</b>	<b>/</b>	<b>690</b>		<b>V</b>
Frequency:	<b>50 Hz</b>				<b>Hz</b>
Connection:	<b>Δ</b>	<b>/</b>	<b>Y</b>		
Amps full load (FLA):	<b>94</b>	<b>/</b>	<b>54</b>		<b>A</b>
Amps no-load (NLA):					<b>A</b>

Enclosure:	<b>IP55</b>		Cable entries size:		
Mounting:	<b>IM B3 (IM 1001)</b>		Winding protection:		
Insulation Class:	<b>F</b>		Max. Altitude:	<b>1000</b>	<b>m.a.s.l.</b>
Max. ambient temp.:	<b>+40</b>	<b>°C</b>	Heater:	<b>no</b>	
Min. ambient temp.:	<b>-20</b>	<b>°C</b>	Shaft extension:	<b>60x140</b>	<b>mm</b>
Max. temp. rise:	<b>80</b>	<b>K</b>	Weight:	<b>420</b>	<b>kg</b>
Duty type:	<b>S1</b>		Painting:	<b>Argus</b>	
Cooling form:	<b>IC411 (TEFC)</b>		Color:	<b>RAL 5021</b>	
Bearing DE	<b>6314</b>	<b>C3</b>	Box position:	<b>Top DE</b>	
Bearing NDE	<b>6314</b>	<b>C3</b>	Cable entry towards:	<b>Right</b>	
Grease:	<b>Lithium or Polyurea Base</b>		Cable type:	<b>N/A</b>	
Regreasing facilities:	<b>YES</b>		Balance grade:	<b>Reduced</b>	

Efficiency class:	<b>IE2</b>			Sound pressure (1m):	<b>dB(A)</b>
Load data:	<b>100%</b>	<b>75%</b>	<b>50%</b>	Resistance R20:	<b>0,08 PH</b>
Efficiency:	<b>93,2</b>	<b>94,6</b>	<b>93,7</b>		
Power factor:	<b>0,91</b>	<b>0,90</b>	<b>0,86</b>		

Full load torque (FLT):	<b>177,7</b>	<b>Nm</b>	Pull out torque ratio:	<b>2,8</b>	<b>MK/MN</b>
Starting torque ratio:	<b>2,3</b>	<b>MA/MN</b>	Pull up torque:	<b>1,9</b>	<b>MS/MN</b>
Starting current ratio:	<b>7,8</b>	<b>IA/IN</b>	Rotor inertia WK2:	<b>0,56</b>	<b>kgm<sup>2</sup></b>

Special remarks:

### SPECIAL DATA FOR HAZARDOUS LOCATION MOTOR

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

Special remarks: