

# BROOK CROMPTON

## TECHNICAL DATA SHEET

Three-phase asynchronous motor

MOTOR FRAME: **Cast Iron**

a company of



Motor type: **W-DF355SN IE2 2P 280KW B3**  
Motor item number:

Rated power:	280 kW			60 HZ data	kW
Poles(Synch speed):	2p (3000) r.p.m			50 HZ data	r.p.m
Full load speed:	2980 r.p.m			60 HZ data	r.p.m
Voltage:	400	/	690 V	50 HZ data	V
Frequency:	50 Hz			60 HZ data	Hz
Connection:	$\Delta$	/	Y	50 HZ data	A
Amps full load (FLA):	478	/	277 A	60 HZ data	A
Amps no-load (NLA):	A			60 HZ data	A

Enclosure:	IP55		Cable entries size:	3xPT160
Mounting:	IM B3 (IM 1001)		Winding protection:	3xPT160
Insulation Class:	F		Max. Altitude:	1000 m.a.s.l.
Max. ambient temp.:	+40	°C	Heater:	no
Min. ambient temp.:	-20	°C	Shaft extension:	75x140 mm
Max. temp. rise:	80	K	Weight:	2000 kg
Duty type:	S1		Painting:	Argus
Cooling form:	IC411 (TEFC)		Color:	RAL 5021
Bearing DE	N316	C3	Box position:	Top DE
Bearing NDE	6316	C3	Cable entry towards:	Right
Grease:	Lithium or Polyurea Base		Cable type:	N/A
Regreasing facilities:	YES		Balance grade:	Normal

Efficiency class:	IE2			Sound pressure (1m):	80 dB(A)
Load data:	100%	75%	50%	Resistance R20:	0,0073 PH
Efficiency:	95	95,8	64,8		
Power factor:	0,89	0,87	0,82		

Full load torque (FLT):	897,3	Nm	Pull out torque ratio:	2,7	MK/MN
Starting torque ratio:	2,0	MA/MN	Pull up torque:	1,6	MS/MN
Starting current ratio:	7,5	IA/IN	Rotor inertia WK2:	5,9	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: