Motor Data Sheet

BROOK CROMPTON
Keeping Industry Turning

Product information in accordance with commission regulation (EU) no. 2019/1781, annex I - item no. 2				
1	Rated efficiency at rated load	load	50 Hz	60 Hz
		100%	85.3	86.5
		75%	85.1	86.3
		50%	83.5	84.0
2	Efficiency level:		IE3	IE3
3	Manufacturer name / trade mark / Commercial registration no. / address:			
	Brook Crompton UK Ltd registration number 4305426			
	Registered Office: St Thomas' Road, Huddersfield, HD1 3LJ			
4	Motor type:		AC INDUCTION	
	Motor part number:		**090W228511T**	
5	Number of poles:		4	
6	Rated power output (kW):		1.5	1.73
7	Rated input frequency (Hz):		50	60
8	Rated voltage (V):		230 / 400	265 / 460
9	Rated speed (min-^{1}):		1440	1740
10	Phase:		3	
11	Altitudes above sea-level:		1000m	
	Ambient air temperatures:		-20°C to +40°C	
	Water coolant temperature:		-	
	Maximum operating temp:		-	
	Potentially explosives atmosphere:		NO (SAFE AREA)	
12	Exempt from regulation:		NO	
	Reason of exemption:		-	
13	Power losses: Power losses in % of the rated output at the following operation points (speed vs. torque values):	(90/100)	NOT APPLICABLE	
		(90/50)	NOT APPLICABLE	
		(50/100)	NOT APPLICABLE	
		(50/50)	NOT APPLICABLE	
		(50/25)	NOT APPLICABLE	
		(25/100)	NOT APPLICABLE	
		(25/25)	NOT APPLICABLE	

		50 Hz	60 Hz
Power factor:	100%	0.70	0.71
	75%	0.60	0.62
	50%	0.48	0.48
Phase connection:		DELTA / STAR	DELTA / STAR
Rated current (A):		6.3 / 3.6	6.1 / 3.5
Duty:		S1	S1
Rated torque (Nm):		9.95	9.5
Starting current (Ia/In):		7.4	7.7
Starting torque (Ma/Mn):		3.6	3.6
Breakdown torque (Mk/Mn):		3.6	3.7

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Frame size :	WP-DF90LWX-D
Housing material:	CAST IRON
Mounting:	FLANGE, NO FEET HORIZONTAL (IM3001)(B5)
Degree of protection:	55
Method of cooling:	IC411
Thermal class:	155(F)
Motor weight:	30.5 kg (approx.)

Terminal box position:	TOP
Cable entry:	1 x CM20
Cable gland:	NOT FITTED
Terminal board pin size:	M4

DE bearing:	6205-2Z/CN
NDE bearing:	6203-2Z/CN
Regreasing facility:	GREASED FOR LIFE
Grease:	POLYUREA

Balance grade:	1.6	mm/s
Rotor inertia:	0.0042	kgm^2
Rotation direction:	CLOCKWISE AT DRIVE END	

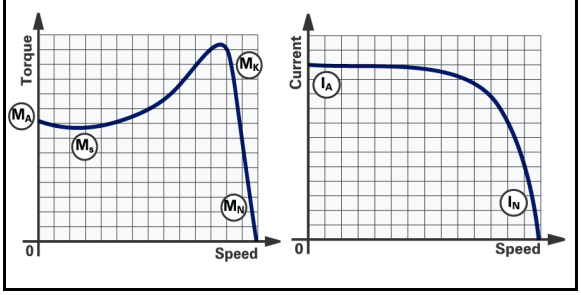
Paint system:	C3
Colour:	RAL 5021 (WATER BLUE)

Sound pressure 50Hz:	48	dB(A)
Sound pressure 60Hz:	51	dB(A)

Winding protection:	-	-		
Heaters:	-	V	-	W

Hazardous area marking:	Ex n/a
Certificate number:	n/a
tE time:	n/a

Typical Torque and Current Vs Speed curve



Remarks:

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All data subject to tolerance

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