Motor Datasheet

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%	87.7	89.5
		75%	87.7	89.8
		50%	85.7	88.9
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:	100WN242403	
5		Number of poles:	4	
6		Rated power output (kW):	3.00	3.00
7		Rated input frequency (Hz):	50	60
8		Rated voltage (V):	230 / 400	460
9		Rated speed (min-^{1}):	1420	1704
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	
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%	0.82	0.82
	75%	0.76	0.76
	50%	0.65	0.65
Phase connection:		DELTA / STAR	STAR
Rated current (A):		10.4 / 6.0	5.1
Duty:		S1	S1
Rated torque (Nm):		20.2	16.8
Starting current (Ia/In):		7.6	7.6
Starting torque (Ma/Mn):		2.3	2.3
Breakdown torque (Mk/Mn):		2.3	2.3

Frame size :	WE3-100L2-4
Housing material:	ALUMINIUM
Mounting:	FOOT, HORIZONTAL (IM1001) (B3)
Degree of protection:	IP55
Method of cooling:	IC411
Thermal class:	155(F)
Motor weight:	31 kg (approx.)(B3)

Terminal box position:	TOP
Cable entry:	1 x CM25
Cable gland:	YES
Terminal board pin size:	M4

DE bearing:	6206ZZ C3
NDE bearing:	6205ZZ C3
Regreasing facility:	GREASED FOR LIFE
Grease:	POLYUREA

Balance grade:	2.8	mm/sec
Rotor inertia:	0.01400	kgm^2
Rotation direction:	CLOCKWISE AT DRIVE END	

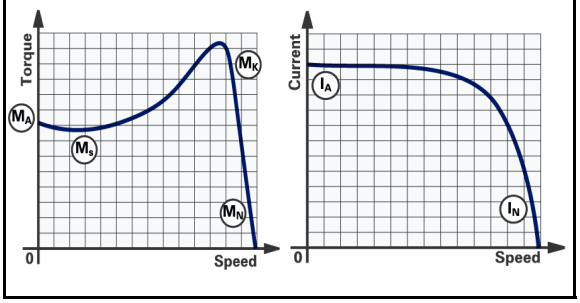
Paint system:	C3
Colour:	RAL5021 (WATER BLUE)

Sound pressure 50Hz:	52	dB(A)
Sound pressure 60Hz:	57	dB(A)

Winding protection:	150°C PTC THERMISTORS
Heaters:	- V - W

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

Typical Torque and Current Vs Speed curve



Remarks:

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All data subject to tolerance

author: BCUK date: 08/11/2024 version: WEN / 1

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