Buy a Mitsubishi Electric a.c. inverter with a Brook Crompton motor and get a 3-year warranty

MITSUBISHI ELECTRIC
BROOK CROMPTON
a WOLONG company

Brook Crompton and Mitsubishi Electric are offering a 3-year warranty when a Brook Crompton motor and a Mitsubishi a.c. inverter are purchased together.

The advanced auto tuning capabilities of Mitsubishi Electric a.c. inverters is ideally suited to the premium motor technology offered by Brook Crompton. This combination of class leading technologies allows you to select and purchase a 'premium matched pair', that will offer the very best energy saving capabilities.

These motor-drive packages ensure compliance with the European Minimum Energy Performance Standard (EU MEPS). High levels of efficiency can be acheived when combining IE3 motors and the latest optimised a.c. inverter technology.

Benefits:

- 3 year warranty when an a.c. inverter is purchased as a package with a 'W' range motor.
- You get your a.c. inverters and motors from 'one source'.
- We offer advice to help ensure you get the very best motor and inverter for your requirements

Variable speed drive motor duty de-rating factor:

The factors in the de-rate table below are applied to the standard motor rated output (kW) at 50Hz mains supply to work out the motor output (kW) at 50Hz for the application type/speed range indicated.

Temperature Rise	Description	Variable Torque	Constant Torque Self Ventilated					Constant Torque Force Ventilated	Constant Power
	Frequency Range (Hz)	50 : 2.5	50 : 2.5	50 : 16	50 : 10	50 : 5	50 : 2.5	50 : 2.5	100 : 50
	Speed Range	20 : 1	2 : 1	3 : 1	5 : 1	10 : 1	20 : 1	20 : 1	1 : 2
Class B (80K)	De-rating Factor	0.94	0.88	0.80	0.73	0.65	0.60	0.94	0.94
Class F (105K)	De-rating Factor	1.04	1.0	0.89	0.80	0.70	0.65	1.04	1.04

EXAMPLE: A motor with a rated output of 15kW running on a variable torque application with a speed range of 20:1 and Class B rise, would be rated at 14.1kW

Variable speed drive selection:

The following examples show typical information required when selecting an appropriate inverter drive.

Environmental	Application	Power Supply	Motor Data
Ambient temperature (°C)	Type of load	Voltage supply (V)	Rated power (kW)
Drive location (indoor/outdoor)	Load torque characteristic (variable/constant)	Single or three phase	Full load current (A)
IP rating required	Drive control method (0-10V/4-20mA network)	Supply restrictions	Number of poles
Cable distance (meters)		Harmonic mitigation required	Rated voltage (V)
Space limitation			Rated frequency (Hz)
			Minimum operating speed required (rpm)
			Maximum operating speed required (rpm)