ALL **BRITISH COMPANY**

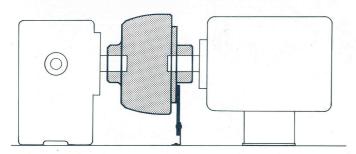
SELF-ADJUSTING ELECTROMAGNETIC

YPE BM

DATA SHEET SIZE **BM175**

WITH BEARING MOUNTED STATIONARY FIELD

MAXIMUM STATIC TORQUE 1.1 N.m. 10lb.ins.



Two part assembly: Input may be from either end.



Clutch H.P. rating

	Allowing for shock torque loads up to 250% of steady load occurring.		
	When load is up to speed	During the accelerating period	
R.P.M. at Clutch Shaft	H.P.	H.P.	
100	0.0064	0.0057	
200	0.0128	0.0112	
300	0.0192	0.0156	
400	0.0256	0.0191	
500	0.0320	0.0226	
600	0.0384	0.0264	
700	0.0448	0.0293	
800	0.0512	0.0311	
900	0.0576	0.0343	
1000	0.064	0.0382	
1250	0.080	0.0474	
1440	0.092	0.055	
2000	0.128	0.0762	
2500	0.160	0.0952	

General Specification

Maximum Static Torque

: 1.1 N.m. (10lb.ins.)

Standard Voltage

: 24 Volts D.C.

Rated Continuous Current : 0.25 amp.

Resistance (20°C)

: 97 Ohms

Other Voltages Available : 6, 12, 50, 90 Volts D.C.

Maximum Speed

: 5,000 R.P.M.

Maximum Heat Dissipation (Slipping)

At various R.P.M. 500 r.p.m.: 870 Nm/min (640 ft.lb/min)

1000 r.p.m.: 1333 Nm/min (980 ft.lb/min)

1500 r.p.m.: 1500 Nm/min (1100 ft.lb/min)

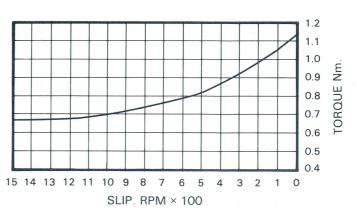
3000 r.p.m.: 1800 Nm/min (1325 ft.lb/min)

Weight

: 0.23kg (8 oz)

Torque: Slip characteristic

i.e. Gives torque at moment of engagement and as load is accelerated.



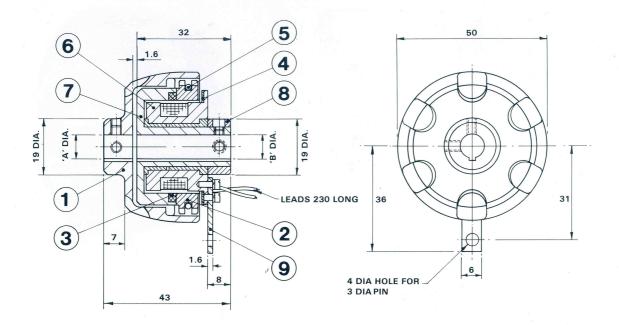
DATA SHEET SIZE BM175

SELF-ADJUSTING ELECTROMAGNETIC CLUTCHES

ALL BRITISH COMPANY

WITH BEARING MOUNTED STATIONARY FIELD

This Clutch is used as a clutch-coupling between two in-line shafts which should be rigidly supported on a good alignment as detailed on the Installation & Maintenance sheet at front of catalogue.



Note: Torque arm to be fastened only to relieve coil leads from light bearing drag. Do not tighten so as to load the bearing unnecessarily.

PARTS LIST

ITEM	PART No.	TITLE	No. OFF
1	540	OUTER MEMBER	1
2	543	DRIVE RING	1
3	552	FRICTION RING	1
4	4854	MAGNETIC INSULATOR	1
5	735	CUSHION RING	1
6	3954	BM. FIELD SPOOL ASSY	1
7	2065	BM. INNER ROTOR	1
8	2066	COLLAR	1
9	2067	TORQUE ARM	1

STANDARD BORES

'A' INCHES	'B' INCHES	KEYWAY WIDTH INCHES		
.1885/.1875	.1885/.1875			
.251/.250	.251/.250	-		
.3135/.3125	.3135/.3125	1/8"		
.376/.375	.376/.375	1/8"		
.4385/.4375	-	1/8"		
-0 mm +.03	-0 mm +.03	mm		
6	6	-		
8	8	2		
9	9	3		
10	-	3		

CLARK ELECTRIC CLUTCH AND CONTROLS Ltd