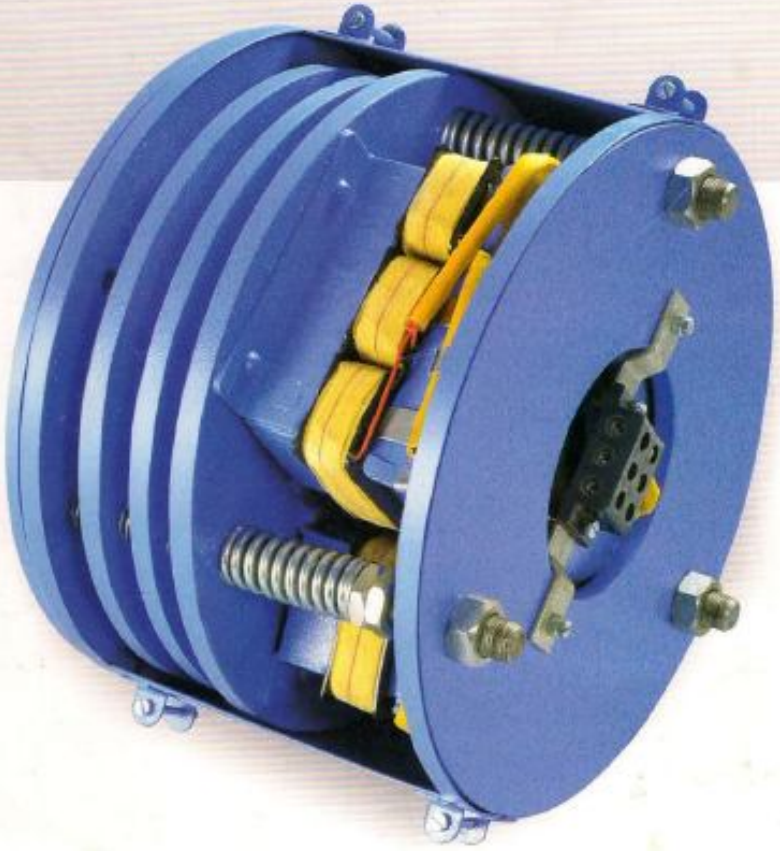
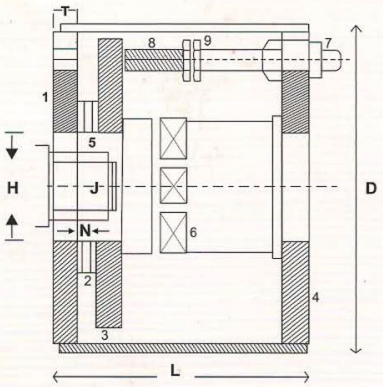
ANAND SYSTEMS ENGINEERING PVT. LTD.

safety
for your process & Profitability



Electromagnetic Disc Brake

~~Bates~~ BIOS



1. Mounting Plate
2. Liner Plate
3. Magnet Plate
4. Coil Plate
5. Square Hub
6. Coil
7. Stud
8. Spring
9. Machine Nut

RANGE	TECH. DATA		DIMENSIONS						
	T.Kg.m	VA	D.	H.	L.	T.	J.	M. Sq.	N.
GMAC - 130	0.2	80	121	50	120	10	14	7/8" X 7/8"	25
GMAC - 140	0.6	80	135	60	125	15	16	1¼" X 1¼"	25
GMAC - 150	1.1	80	153	60	125	15	19	1¼" X 1¼"	28
GMAC - 150X	2.2	80	153	60	150	15	24	1½" X 1½"	45
GMAC - 190	2.5	165	193	80	125	15	28	1½" X 1½"	28
GMAC - 190X	4.5	165	193	80	150	15	28	1½" X 1½"	45
GMAC - 235	4.0	205	235	105	132	15	38	2" X 2"	28
GMAC - 235X	6.0	205	235	105	156	15	38	2" X 2"	45
GMAC - 290	5.5	250	275	115	156	15	38	60 X 60	28
GMAC - 290X	11	250	275	115	180	15	42	60 X 60	45
GMAC - 290XX	14	250	275	115	205	15	42	60 X 60	60

* GMAC - 130,140,150 & 150X also available in single phase.
* Motor with brake is also available.

SPECIAL FEATURES :

- Nylon/ Bakelite bobbin with 'F' Class insulation coil.
- M.S. plate for liner.
- 16.5 mm thick liner.
- 10 mm thick E plate / I plate.
- 15 mm thick mounting plate.
- C.R.N.G.O. stamping.
- We are using machined nuts.
- Close type connector with nylock nut.
- Heavy duty brake.

A.C.DISC BRAKES : (FAIL SAFE)

Very compact and modern in design. Foundation is not necessary as they are directly mounted on non-driving end shaft of the motor. It consists of liner plates (Brake Disc) with square & spine hole at the center. This hub is keyed to the motor shaft and the liner plate is free on this hub. Normally liner plate is gripped between two discs with the help of **spring pressure.** It works on 415 V.A.C. When the current is supplied to the brake, one disc is attracted by electromagnet against spring pressure and the liner plate is released. Thus the brake is 'off'. Once the brake is set it does not required adjustments or maintenance. When the liner plates wear with the use then only air gap is to be maintained periodically. An arrangement to **release the brake manually** could be provided on request.

FAIL SAFE BRAKE FOR BRAKE MOTORS :

Brake Motor is combination of three phase Squirrel Cage Induction Motor with Electro-Magnetic Disc Brake, When power is switched off with ordinary motor, the rotating parts will stopped after some time but if Brake motor is used, rotating mass will stop instantaneously. All Brakes are mounted at non-driving end of Motor. Braking disc is mounted directly on motor shaft. As Brakes are directly acting, no lever or links are required. Friction Liner Plate is only wearing part and this is easily replaceable.

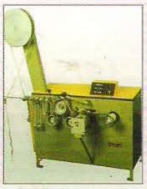
APPLICATIONS :

Used in Machine tools, Hydro Extractors, Coil Winding Machines, Wire Drawing Machines, Rubber Mixing Mills, Rolling Mills, Printing machines and in many other industries such as a Cement Mining, Sugar, Textile, Material Handling etc. In case of power failure in machines like Hoists, Cranes, Winches, Elevators, etc.application of Brake is must. We offer AC type brakes, called fail safe brake, as in case of power failure, these brakes apply mechanically.


Hoist / Crane


Concrete mixing plant


Roll winding machine


Spool winding machine


Press Brake


Moulding machine

Note : Product development is a continuous process. Consequently the data indicated in this catalog is subject to change without prior notice. For the latest issue contact our sales offices.

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