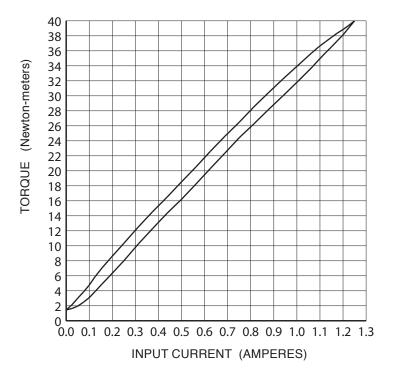
## DATA SHEET



At brake temperature :	68°F	160°F
COIL RESISTANCE (Ohms)	16.0	19
INPUT D.C. VOLTAGE, @ 2.4 Amps	20	24

Do not exceed 1.25 amperes or 40 N.-m. torque.

## BRAKE PERFORMANCE

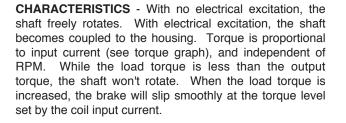
TORQUE: At 20 volts, the brake will draw 100% of the rated input current, at 68°F. Output torque will be 40 Newton-m.

POWER SUPPLY: A "constant-current" D.C. power supply is recommended for the best accuracy in open-loop control systems.

HEAT DISSIPATION: Fins on the internal rotor move air which increases cooling with increasing RPM. A fan or compressed air flowing into cooling ports increases cooling. For continuous slip, calculate the heat input by the formula :

HEAT (watts) = RPM x TORQUE (N.-m.) / 9.6

Using the above formula: At rated torque, the maximum continuous RPM is 38, (57 with compressed air). The brake can dissipate higher amounts of heat for short periods of time, but the average must not exceed ratings. The case temperature must never exceed 75 degrees C.



Torque range 1.9 to 40	Newton-m.
De-magnetized drag torque 0.3	Newton-m.
Maximum RPM 500	RPM
Heat dissipation, @ 100 RPM 160	Watts
Heat dissipation, w/ piped air 240	Watts
Piped air pressure 48	kiloPascals
Piped air volume 0.21	m. <sup>3</sup> /minute
Maximum case temperature 75	degrees C
Maximum overhung load 550	Newtons
Shaft inertia 0.0081	kgm. <sup>2</sup>
Weight 7.7	kg.

**TORQUE CURVE** - Use the lower torque curve when an input current value is approached from 0 amperes. Use the upper torque curve when the input current value is approached from the 100% input current.



Mount horizontally only.

## INSTALLATION INFORMATION

Do not drop, or strike with a hammer. Keep away from fine metal filings and fine metal chips. Shield from liquids.

Do not attempt to remove the brake shaft or retaining ring.

All pulleys, sprockets, couplings, etc. must mount as slide fits. Use a puller to remove stuck components. Never pry or hammer to install or remove components.

Always use a flexible coupling when connecting the shaft of a rigidly mounted brake to the shaft of another rigidly mounted device. Precisely align both shafts.

Always electrically ground the brake.

**COMPRESSED AIR COOLING** For additional cooling, connect low pressure (48K Pascals max.) compressed air to the 1/8-19 BSPT tapped hole. (British Standard Tapered Pipe Thread). An adaptor fitting to 1/4" hose is included. Use clean, filtered, oil free, moisture free air.



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