E-M JOB-ENGINEERED

Protection!

FOR HEAVY-DUTY INDUCTION MOTORS

One of industry's most pressing needs has long been induction motors that can be depended on to operate with year-in-and-year-out reliability on the toughest, heavy-duty jobs. It is a need that has resulted in the brilliant engineering and sturdy construction of E-M Squirrel-Cage Induction Motors, with their indestructible rotors, long-life insulation and cool-running, wear-resistant bearings.

Along with the other extra-value advantages of these heavy-duty motors comes E-M job-engineered protection.

This protection gives added assurance of reliable performance. Without it, there is constant danger under most conditions of water or other destructive agents falling into the vital parts of the motor and eventually causing damage and costly repairs.

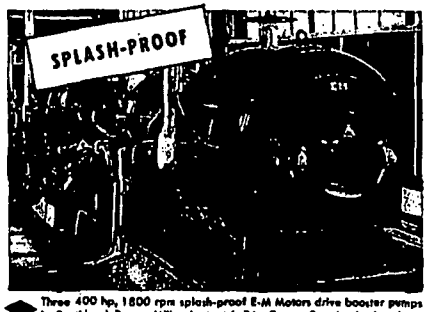
E-M Induction Motors are available with the following types of job-engineered external protection:

DRIP-PROOF—A strong, steel shield provides protection over a 30° arc, safeguarding the motor against falling liquids or particles. Drip-proof construction is recommended in conditions when the more complete protection of splash-proof or enclosed construction is unwarranted.

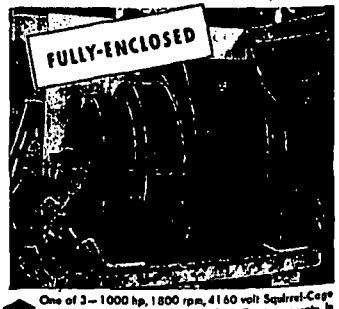
SPLASH-PROOF—A full 200° arc of protection safeguards motors with splash-proof construction. It is a type of construction found advisable in many paper mill, chemical plant and pumping plant installations and is recommended whenever there is danger of splashing or flying particles, as in hosing down floors.

Enclosed, Self-Ventilating or Separately Ventilated—These are special types of motor protection recommended when there is excessive air contamination or high air temperatures, and it is desirable to either filter the air or to draw it from cooler, uncontaminated sources.

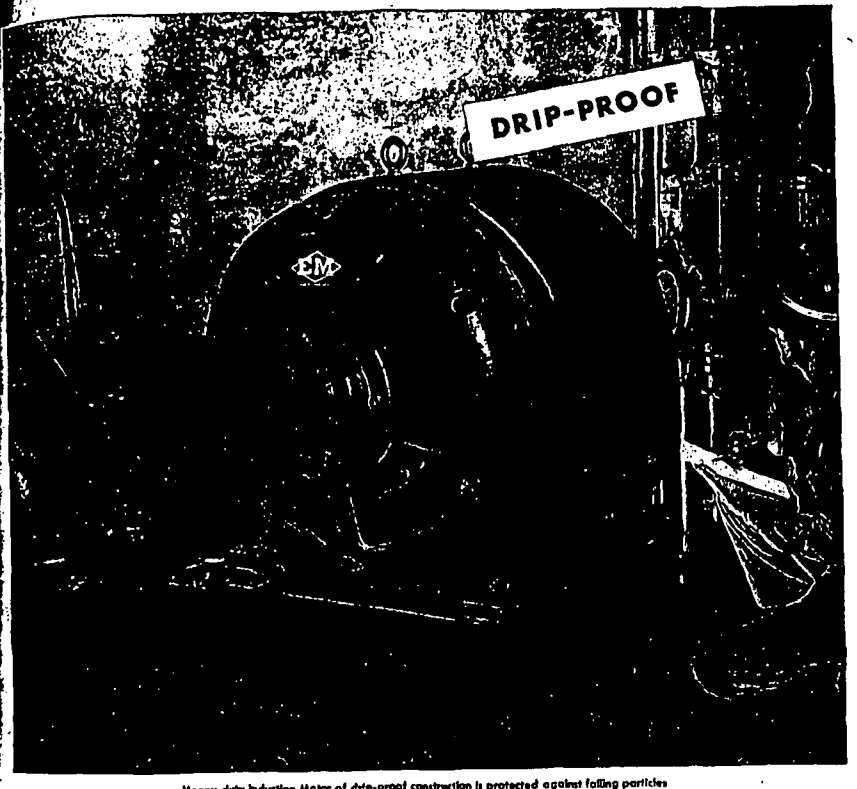
40 YEARS OF BIG MOTOR KNOW-HOW HELPS BUILD OUTSTANDING INDUCTION MOTORS



Three 400 hp, 1800 rpm splash-proof E-M Motors drive booster pumps in Southland Paper Mills plant at Lufkin, Texas. Regular hosing-down operation can't touch E-M Motors protected in full 200° arc against damage.



One of 3—1000 hp, 1800 rpm, 4160 volt Squirrel-Cage Induction Motors for Texas Pipeline Co. to operate in locations where surrounding air is contaminated with Hydrogen Sulphide gas, weak acid and abrasive dust.



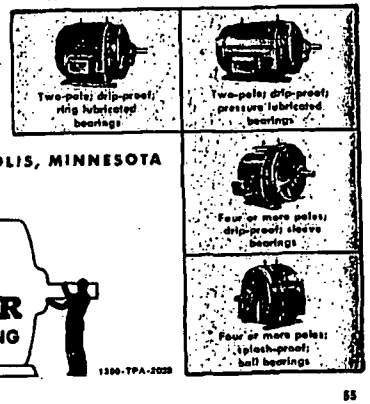
Heavy-duty Induction Motor of drip-proof construction is protected against falling particles and dripping liquids in the St. Joseph Lead Company mine at Leadwood, Missouri.

A little improvement in designing gives a lot in extra value

In the E-M drip-proof motor shown above—Note that the frame flares out at the bottom to accommodate the extra volume of discharge air in that region. This is another instance where E-M's experience in big motor engineering results in more efficient design.

Important things have been happening in induction motor design and construction at Electric Machinery . . . things that mean a big difference in induction motor reliability, economy, maintenance. Write now for the full story . . . just ask for your publications 189 and 190.

Types of E-M Squirrel-Cage Induction Motors



ELECTRIC MACHINERY MFG. COMPANY, MINNEAPOLIS, MINNESOTA

E-M SPECIALISTS IN BIG MOTOR ENGINEERING

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