

# ULTIMA

APG

MASTER XL

MOTO DRIVE

ULTIMA

**Motor Options:** A variety of Reliance C-face motors are available off the shelf for use on ULTIMA drives. Examples include corrosion resistant (XT), Easy Clean, high efficiency (XE), and explosion-proof(XP). When explosion proof motors are used, the torque ratings shown on the selection charts must be derated by multiplying the output torque shown by .87. This is because explosion proof motors are not service factored. Standard ULTIMA drivemotors are 1750 rpm, 3 phase, 230/460 volt, 60 Hz, TEFC, 1.15 service factor, Class F insulated, Design B, C-face footless.

**Electric Remote Control:** The ERC offers an easy way to change speeds from a remote location. The ERC option includes a push-button station, and a servo motor that operates the shifting mechanism in the beltcase. This option is ideal where open loop remote operation is required. When closed loop control is required, refer to the REEVES Automatic Controller.

NOTE: Explosion-Proof ERC not available.

**Speed Indicating Handwheel:** This turns-counting indicator provides a relative indication of output speed and offers excellent resetability. Indicator is gravity-dependent and is not useable on assemblies where the motor shaft/variable shaft is inclined greater than 30°.

**Programmable Digital Tachometer:** Includes 5 digit, programmable LCD (Liquid Crystal Display) indicator with .6 inch high digits and pickup unit (60 tooth pulse wheel and magnetic reluctance sensor). Indicator is powered by a replaceable, internal battery with a 5 year life. Pickup is mounted inside the beltcase and remains in place even during belt changes. Detailed indicator programming instructions are included. The part number below includes the installed sensor and pulse wheel and the separate digital indicator. The indicator may be remotely mounted up to 500 feet away with (user supplied) 2-conductor cable. To order, use the part number below in addition to the basic ULTIMA part number.

**LED Tachometer Indicator:** Where customer requires either a pre-programmed indicator, or a LED (Light Emitting Diode) display, a programmable, 4-digit LED indicator with .5 inch high digits is available on special order. Requires 115 VAC. Same magnetic reluctance sensor and 60 tooth pulse wheel as supplied with the standard LCD Programmable Digital Indicator. Consult Customer Service or Applications Engineering.

**REEVES Automatic Controller:** The RAC adds closed loop electronic speed control capability to the ULTIMA drive. It allows either local (panel mounted speed pot) or remote control. It will interface the ULTIMA drive to any standard analog electronic process control scheme such as 4-20 mA or 0-10 VDC. Additionally, the RAC is a self-contained closed loop control system that maintains ±1% ULTIMA drive output speed regulation over the full rated load range.

The RAC includes an ULTIMA drive-mounted shifting motor and limit switch arrangement, a magnetic reluctance tach pickup and mounting and a separately mounted control head in a NEMA 4X enclosure.

A programmable digital tachometer readout may be added to the AC.

For additional information, contact REEVES Applications Engineering at (812) 376-1252.

**Flanged output reducers and extremely slow speed ranges** are available on a made to order basis through REEVES Application Engineering (812)376-1252.

**Chromalife Discs:** Where long term storage or exposure to a corrosive atmosphere is anticipated, this feature protects disc faces by chrome plating the surface.

**Tachometer Pickup:** Same magnetic reluctance sensor and 60 tooth pulse wheel as supplied for the Programmable Digital Indicator, less indicator.

**Brakes:** A variety of clutches and brakes are available for use on ULTIMA drives with C-face outputs. For additional information refer to page D4-30.

**E-Z KLEEN Package:** This option includes a Reliance Easy Clean Motor, Chromalife Discs, a corrosion resistant (XT) gearcase, and USDA approved white paint. This package is ideal for food, chemical and wastewater industry applications.

### Beltcase Retrofit Kits: Converting a MOTO DRIVE beltcase to an ULTIMA beltcase -

Retrofit kits are now available to convert a REEVES MOTO DRIVE unit to the ULTIMA design. These kits are ideal to modify an existing MOTO DRIVE to provide the ease and simplicity of performing routine maintenance the ULTIMA Drive permits.

The kit replaces a MOTO DRIVE beltcase with an ULTIMA backplate, cover and control assembly. The kit also includes a new belt, bushings, thrust bearing and variable shaft bearing. All other components from the existing MOTO DRIVE can continue to be used.

These retrofit kits are only available for and usable on standard C-Flow MOTO DRIVE. They are not adaptable to Z-Flow, Trunnion foot, Inverted Vertical assemblies, and units with brakes or tachometers.

When ordering, be sure to include nameplate data from the existing MOTO DRIVE so a Specification Change (MFC) can be used. A new stamped nameplate will be included in the kit and will ensure that correct replacement parts are provided in the future.