B3W RODLESS BELT-DRIVE ACTUATOR

ENDURANCE TECHNOLOGY

Endurance Technology features are designed for maximum durability to SM provide extended service life.

The B3W rodless belt-drive electric actuator is designed for carrying moderate to heavy loads at moderate to high speeds with large bending moment capacity. The B3W utilizes an integral recirculating ball bearing guidance system that provides durable performance and extremely long life. The B3W belt-driven actuator features speeds up to 5.1 m/sec [200 in/sec]. Built-to-order in stroke lengths up to 5.3 m [207 inches].

YOUR MOTOR HERE

YOU CAN CHOOSE:

- Specify the device to be installed and actuator ships with proper mounting hardware
- Specify and ship your device to Tolomatic for factory installation
- Motor or gearbox supplied and installed by Tolomatic

OVERSIZED PULLEY BEARINGS

Drive shaft assembly incorporates sealed

ball bearings for complete support of the

increased belt tension at high speeds

STAINLESS STEEL SEALING BAND

- Prevents contaminants and nut area for extended
- Fatique resistant stainless
- Provides IP44 protection

Tolomatic...MAXIMUM DURABILITY

Prevent

the sealing

band area to

components

protect internal

RECIRCULATING BALL BEARING SYSTEM

Unique design incorporates hardened steel

raceways integral to the aluminum extrusion

Recirculating ball bearing system provides

Bearing surfaces are adjusted at the

performance

factory for optimum preload and smooth

guidance, high efficiency and durability

BELT TENSIONING SYSTEM

· Full access to the idle pulley allows ease of adjustment for alignment and tensionina



FORMED END CAP Dual adjustment screws and field **WIPERS** tensioning kit provide simple maintenance contaminants from entering

MOTOR ORIENTATION

YOU CAN CHOOSE:

- Direct drive option directly couples the driving shaft and is typically a one-piece housing construction for optimum alignment and support of the motor
- •Reduction drive option minimizes the overall length and offers a belt reduction drive with a 1:1 or 2:1 ratio

LIGHTWEIGHT ALUMINUM DESIGN

- optimized for rigidity and strength
- External switch channels on both sides allow easy placement and adjustment of

- from entering the screw performance
- steel bands are specifically made to offer long life and will not elongate
- for bearings and screw nut

INTERNAL

BUMPERS

Bumpers protect

the screw and

nut assembly

end of stroke

from damage at

OPTIONS

CARRIER OPTIONS

- AUXILIARY CARRIER doubles the load capacity and increases pitch and yaw bending moment
- DUAL 180° CARRIER doubles the load capacity. increases roll and yaw bending moment capacities and offers a wide mounting platform

- Black anodized extrusion design is
- position indicating switches

MULTIPLE BELT TECHNOLOGIES

YOU CAN CHOOSE:

- Polyurethane steel-cord reinforced HTD style belt (standard)
- Polyurethane Kevlar reinforced HTD style belt

LOAD-BEARING CARRIER DESIGN

Load and moments are transmitted directly to the actuator body

MOUNTING OPTIONS

- SURFACE MOUNT two t-slots are integral on the entire underside of the actuator body for direct mounting
- TUBE SUPPORTS provide intermediate support of the actuator body throughout long stroke lengths
- MOUNTING PLATES provide intermediate support of the actuator body throughout long stroke lengths

METRIC OPTION

Provides metric tapped holes for mounting of load to carrier and of actuator to mating surfaces



SWITCHES

Styles include: reed, hall-effect or triac. Select either 5 m potted cable with flying leads or 150 mm to quickdisconnect coupler with mating 5 m cable