B3S RODLESS SCREW DRIVE ACTUATOR

ENDURANCE TECHNOLOGY A Tolomatic Design Principle Endurance Technology features are designed for maximum durability to provide extended service life.

The B3S rodless screw-drive electric actuator is designed for carrying moderate to heavy loads with large bending moment capacity. The B3S utilizes an integral recirculating ball bearing guidance system that provides durable performance and extremely long life. Choose from multiple screw technologies for thrust up 12 kN [2,700 lbf]. Built-to-order in stroke lengths up to 4.5 m [179 inches].

Tolomatic...MAXIMUM DURABILITY

SCREW SUPPORT BEARINGS

Unique high thrust bearing assembly design eliminates runout and isolates the linear forces from the drive shaft



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

LOAD-BEARING CARRIER DESIGN Load and moments are transmitted directly to the actuator body

FORMED END CAP WIPERS Prevent contaminants from entering the sealing band area to protect internal components

INTERNAL BUMPERS

Bumpers protect

the screw and

nut assembly

end of stroke

from damage at

LIGHTWEIGHT ALUMINUM DESIGN

•Black anodized extrusion design is optimized for rigidity and strength

RECIRCULATING BALL BEARING SYSTEM

Unique design incorporates hardened steel

raceways integral to the aluminum extrusion

• Bearing surfaces are adjusted at the

guidance, high efficiency and durability

performance

factory for optimum preload and smooth

Recirculating ball bearing system provides

 External switch channels on both sides allow easy placement and adjustment of position indicating switches

OPTIONS

MOTOR ORIENTATION

Reverse-parallel option minimizes the

reduction drive with a 1:1 or 2:1 ratio

overall length and offers a belt

 Inline option directly couples the driving shaft and is typically a onepiece housing construction for optimum alignment and support of

YOU CAN CHOOSE:

the motor

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

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



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



YOU CAN CHOOSE:

- quiet performance at the lowest cost; anti-backlash available
- Ball nuts offer positioning accuracy and repeatability with longer life; lowbacklash available





STAINLESS STEEL SEALING BAND

- Prevents contaminants from entering the screw and nut area for extended performance
- Fatique resistant stainless steel bands are specifically made to offer long life and will not elongate
- Provides IP44 protection for bearings and screw nut

- Solid nuts of engineered resins offer