

Abstract

DETACHABLE ELECTRICAL ACTUATOR

[0033] A removable module for actuating elements, such as valves, within a subsea production tree. The module can include a motor, a drive shaft, and a ball screw. Embodiments exist where only the motor is removable, optionally the motor and drive shaft and/or all module elements are removable. A fail safe system is included that moves the production tree element into a pre-designated fail safe position.

Figure 1