## **RF** Exposure Requirements

Product Description: DC Tubular Motor

Model No.: 8000912-S002

FCC ID: 2AY5W-8000912-S002

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- The result is rounded to one decimal place for comparison

## **Calculation Result:**

Tx frequency range: 433.92 MHz Min. test separation distance: 5mm

Max. Field Strength: 85.07dBuV/m @3m

EIRP=E-104.8+20logD=85.07-104.8+20log3=-10.19dBm

Maximum Conducted Output Power: -10.19 dBm

Tune-Up output power: -10.0 dBm

Result: 0.1 Limit: 3.0

The exclusion thresholds is 0.1 < 3, so the transmitter complies with the RF exposure requirements and the SAR is not required.