



HOW TO FIT EARTHINGS:



Tools Required (Safety equipment must be worn when using these tools)

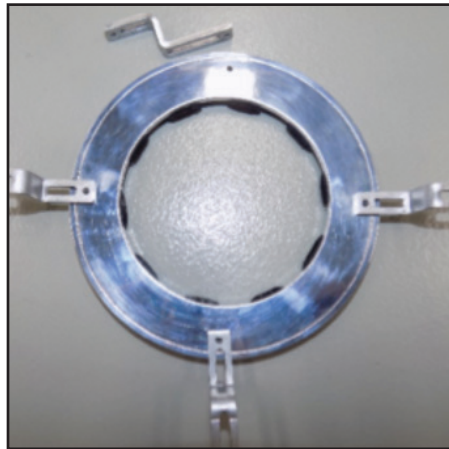
- 1) Electric drill
- 2) 3mm Allen key
- 3) Pin punch or pen/marker
- 4) Small mallet (optional)
- 5) 3mm Tapping tool
- 6) 2.5mm or 2.6mm Steel drill bit
- 7) Pliers (optional)
- 8) Small vernier
- 9) Feeler gauge



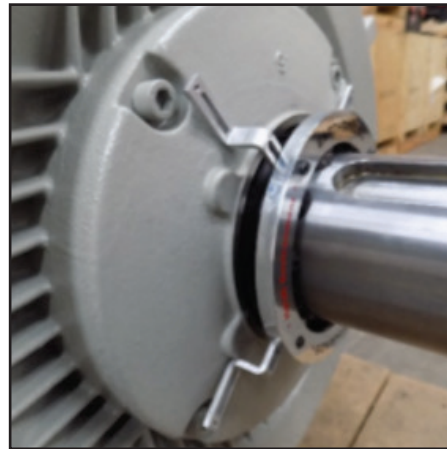
1) Clean Shaft, front of motor and grease cover, plus measure shaft size to ensure Earthring will fit.



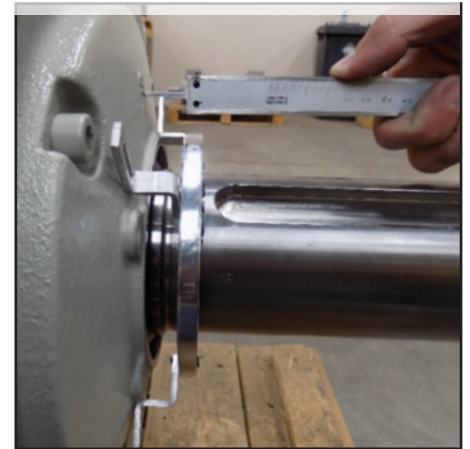
2) Place different universal brackets against motor, and choose which universal Bracket best suits the application. When Earthring is fitted it must be as close to the shoulder of the shaft as possible but not closer than 1mm. (A minimum of 1 mm gap from Earthring to shoulder is required due to shaft heat expansion). Check Steps 6 and 7 to take possible Modifications into account when choosing the correct bracket to use.



3) Once the correct universal bracket is chosen, fit the brackets to the Earthring.



4) Place Earthring with brackets over the shaft.



5) Check Earthring is 1mm or more away from the shaft shoulder (1mm gap).



6) **Modifications** - Bend Brackets if required, brackets are made of aluminium so that you may bend them by hand for finer adjustment and fitting of the Earthring.



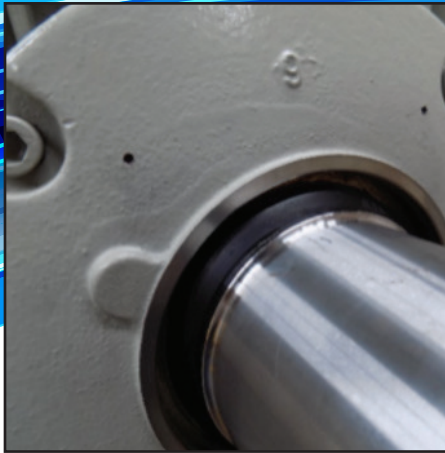
7) **Modifications** - If position not perfect you can fine tune by adding an extra washer behind the bracket or behind the Earthring to position Earthring Further forward. (You may have to use a different length cap screw).



8) Position the Earthring correctly then mark in the centre of the slide-groove with a pin punch. This mark is where you will drill your hole .



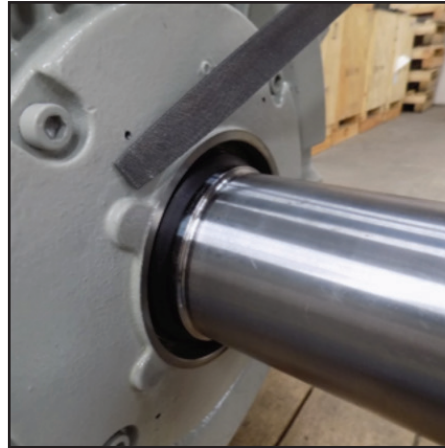
9) Drill hole with 2.5mm Steel drill bit.
****NB Caution - Drill to 4mm Depth only.**



10) Check Depth of hole with Vernia and make sure you have not drilled completely through. (If you have remove endshield or grease cover, remove grease clean bearing and Grease cover with thinners, re-grease bearing and fit Grease cover back in place)



11) Tap Grease cover /endshield holes with 3mm Tap (0.5mm pitch). Use tapping fluid if required.



12) If you happen to break the tap, do not panic, file down the broken tap until it is flush with the grease cover, then drill a new hole 3 or 4mm below or above the old hole (Bracket has slide-groove that will allow for this adjustment).



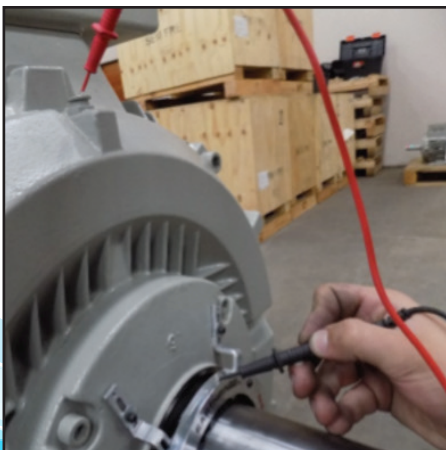
13) Fasten Earthing to grease cover /end-shield with 3mm Cap screws and 1.5mm washer. Do not tighten, leave cap screw firm but slightly loose so as to be able to allow movement of the Earthing, so as to correctly position it evenly over the shaft.



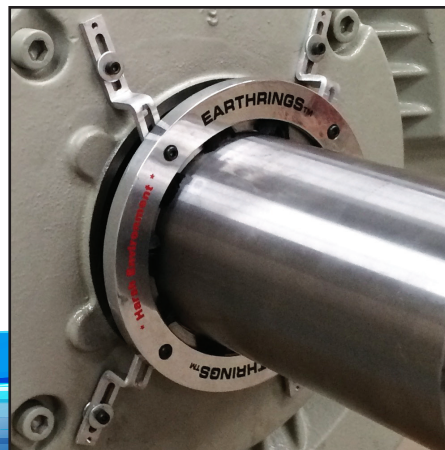
14) Move or tap Earthing so it is evenly positioned around shaft (1mm clearance over shaft), use feeler gauge 0.9mm or 0.8mm thickness to ensure even gap all around shaft.



15) Use 1mm Feeler gauge to check Earthing to have a minimum of 1mm gap from the shafts shoulder, plus also check that Earthing is vertically straight at 90 degree angle / parallel with the shaft and grease cover / endshield.



16) Check conductivity with multi meter between Electric motor casing and Earthing, the reading should be 1 ohms or less.



Earthing Installation Completed.

