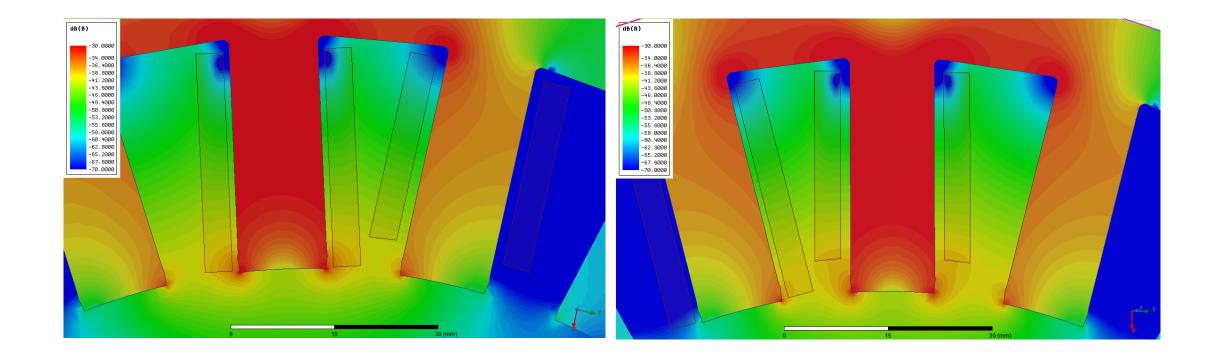
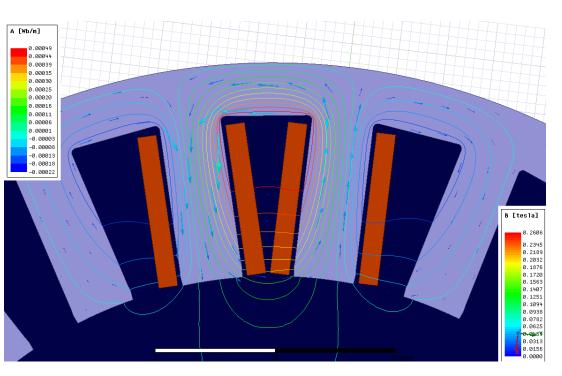
Longer Window

Shorter Window

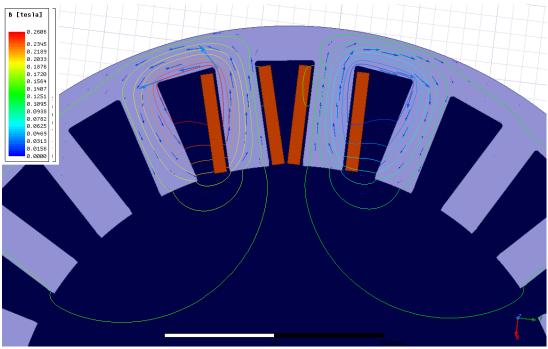


Flux Paths of Different End Winding Connection Types

Opposite Direction



Same Direction



Calculations

Single Coil

Magnetic Circuit:

• MMF = NI

• Reluctance: R/2

• Flux: 2Ф

• Flux Linkage: 2λ

Inductance: 2L

Maxwell: 1.10 mH

Opposite Direction

Magnetic Circuit:

• MMF = 2NI

• Reluctance: R

• Flux: 2Ф

• Flux Linkage: 4λ

• Inductance: 4L

Maxwell: 3.12 mH

Same Direction

Magnetic Circuit:

• MMF = NI

• Reluctance: R

• Flux: Ф

• Flux Linkage: λ x 2

• Inductance: L x 2

Maxwell: 1.18 mH

Measurement

Single Coil

Opposite Direction

Same Direction





