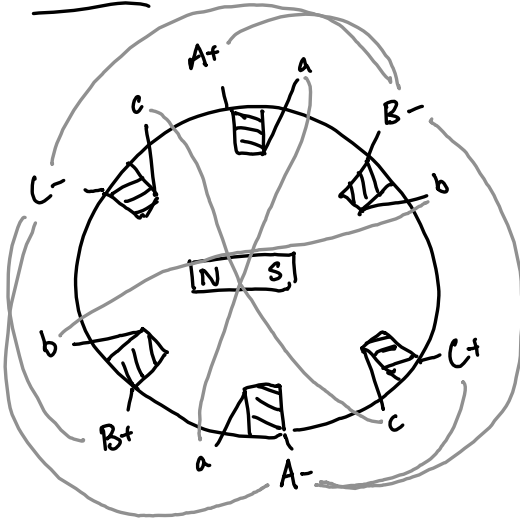
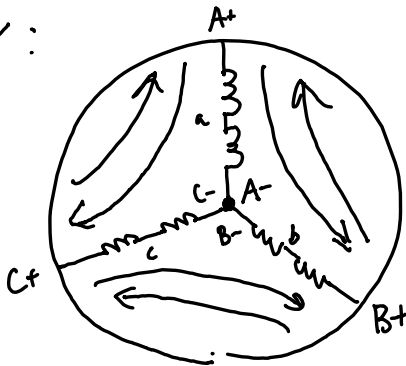


2S.1



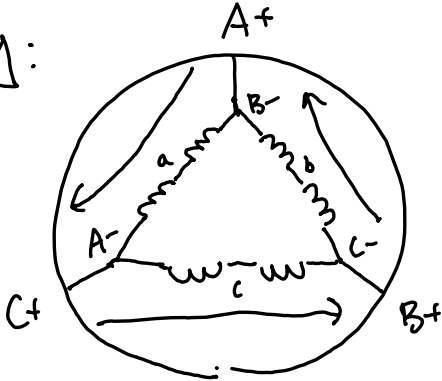
 = coil

Y:



Current goes through
4 coils

Δ:



Current goes through
2 coils

A. Delta motor has lower inductance.

29.3

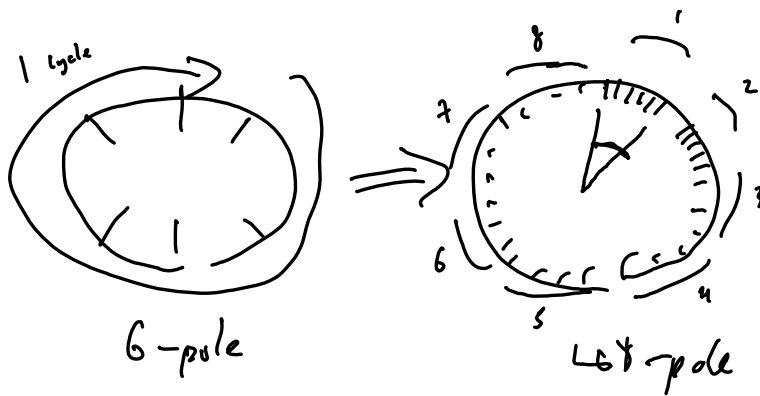
with 6 poles,

1 mechanical cycle = 1 electrical cycle

360° mechanical degrees = 360° electrical degrees

with 48 poles,

1 mechanical cycle = $\frac{48}{6} = 8$ electrical cycles

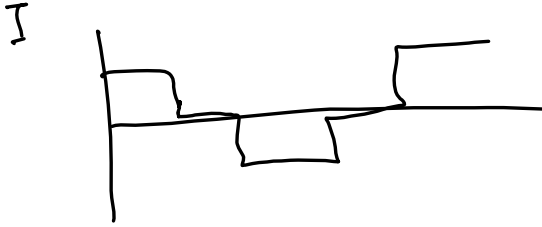


A. 1 mechanical degree = 8 electrical degrees.

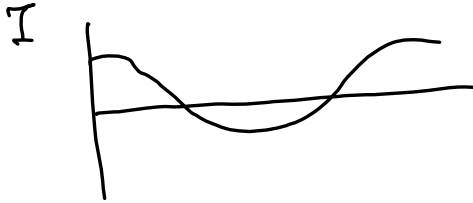
25.9

1. more reliable
2. less noise
3. more efficient
4. more compact.

25.10



block
commutation.



sinusoidal
commutation.

Sinusoidal commutation produces less torque ripple but requires a more complex driver.

Block commutation is cheaper, so if cost is a big factor, the designer would choose it.