

Fichier:TB165 Mclennan Motor.png

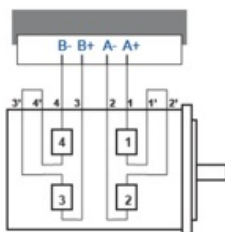
Wiring Configurations for Bipolar operation

Coils in series

8 lead motors can be connected as shown.

When operating a 4 phase motor with series connected coils the maximum allowable phase current must be reduced as follows:

$$\text{Max allowable phase current} = \frac{\text{Uni-polar rating}}{1.41}$$

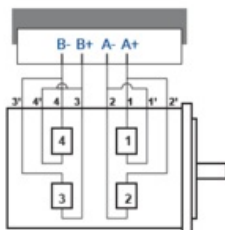


Coils in parallel

This method of connection can only be applied to motors having 8 leads. It is particularly advantageous in providing a combination of strong mid range torque and high speed operation since the effective inductance of the parallel connected winding is unchanged.

The maximum allowable Unipolar phase current may be increased as shown below.

$$\text{Maximum allowable current} = 1.41 \times \text{Uni-polar rating}$$



Motor	Configuration	Phase A+	Phase A-		Phase B+	Phase B-		
23HSX	Series	Red	Yellow/White	Red/White	Yellow	Orange	Orange/White	Brown
23HSX	Parallel	Red	Yellow/White	Red/White	Yellow	Orange	Brown/White	Orange/White
34HSX	Series	Red	Yellow/White	Red/White	Yellow	Orange	Orange/White	Black/White
34HSX	Parallel	Red	Yellow/White	Red/White	Yellow	Orange	Black/White	Orange/White
34HSS	Series	Grey	Red/Yellow		Blue	Brown	Black/Orange	White
34HSS	Parallel	Grey	Yellow	Red	Blue	Brown	Black	Orange

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TB165 C0001 Stepper Motor Obsolescence

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