

Star-delta starter connection

Table 1

Case	Operation	Wiring	Change procedure
1	The motor runs normally during star connection, but it stops when switches to delta operation.	(3)	Disconnect the three wires of U2, V2, and W2 from the terminal block and connect them one by one to the next terminal block.
2	The star connection operation is normal, but when switched to delta connection operation, the thermal overload relay trips. Also, the operation sound is strange and makes howling sound.	(4) - (6)	Select any two of the three wires of U2, V2, and W2 and then swap the wiring. This change may cause Case 1 to occur. In this case, perform the procedure in Case 1 again.
3	The motor rotates in reverse direction during star connection operation. Then, even when switching to the delta connection operation, it rotates in reverse direction.	(7) - (8)	Select the wires of V1 and W1 from the three wires of U1, V1, and W1, and swap the wires. Select any two of the three wires of U2, V2, and W2 and then swap the wiring. This change may cause Case 1 to occur. In this case, perform the procedure in Case 1 again.
4	The motor rotates in reverse direction during star connection operation. Then, when switching to the delta connection operation, the motor stops.	(9)	Select the wires of V1 and W1 from the three wires of U1, V1, and W1, and swap the wires. Disconnect the three wires of U2, V2, and W2 from the terminal block and connect them one by one to the next terminal block.
5	The motor rotates in reverse direction during star connection operation. Then, when switching to the delta connection operation, the thermal overload relay trips. Also, the operation sound is strange and makes howling sound.	(10) - (12)	Select the wires of V1 and W1 from the three wires of U1, V1, and W1, and swap the wires.

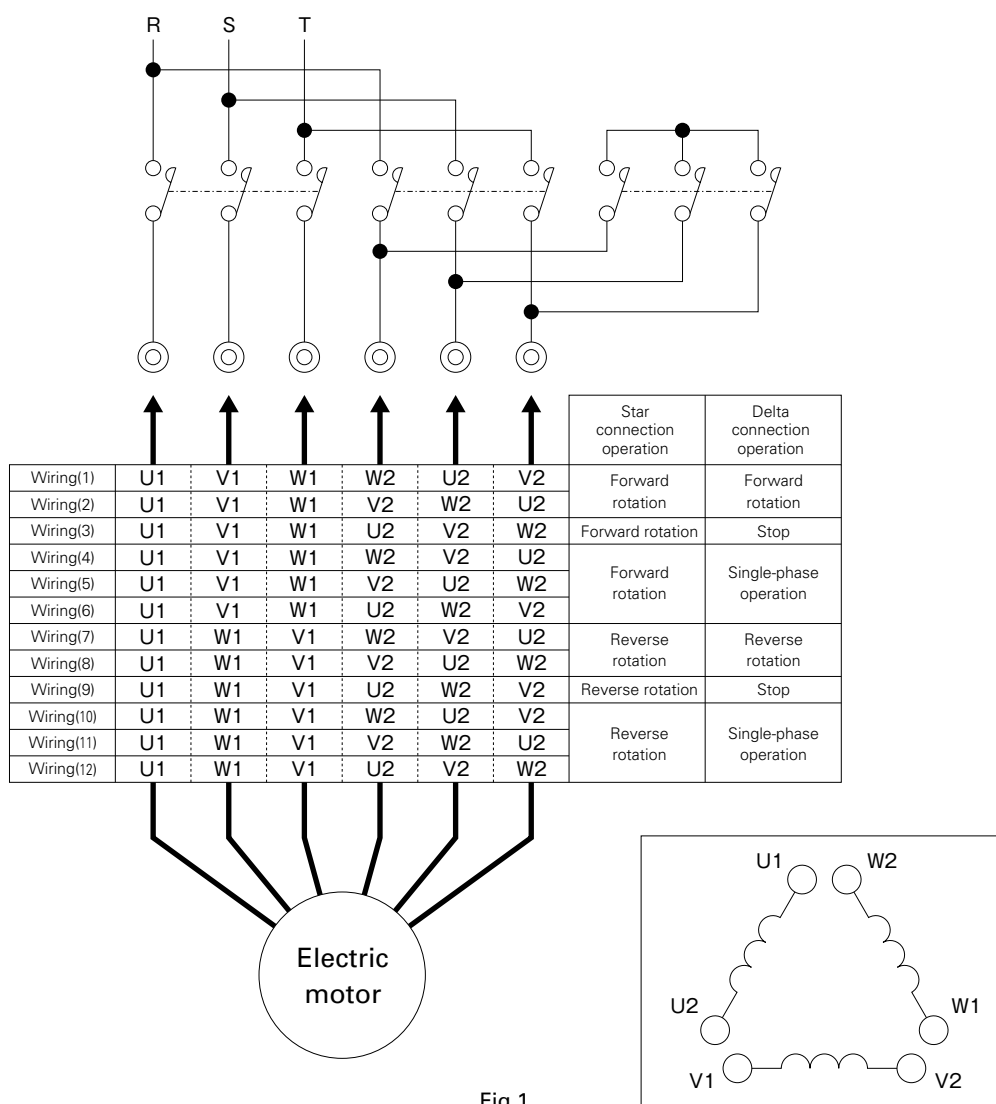


Fig.1