SYNCHRO-START® Model 75

Synchronous Motor Starting Relay
Solid-State, Adjustable Time Delay
Field Discharge Protection Module

Description

The SYNCHRO-START® Model 75 is a solid-state, adjustable time delay relay designed to automatically start synchronous motors. The Model 75 is a field application relay that is mounted in the motor control cabinet.

Operation

The Model 75 is connected in the motor field circuit. When the motor is started, the field is shorted through the field discharge resistor. The Model 75 senses the motor's rotor frequency and applies DC excitation to the field at the proper point in the slip cycle.

Specifications

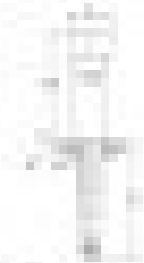
1	L1	Line 1 (Connect to Motor Terminal)
2	L2	Line 2 (Connect to Motor Terminal)
3	F+	Field (+) (Connect to Motor Field)
4	F-	Field (-) (Connect to Motor Field)
5	DB	Dropout Delay (Connect to Terminal 6 for Instantaneous Dropout)
6	COM	Common
7	SEN	Sensitivity Control
8	TD	Time Delay Control

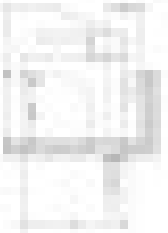
Mounting

Surface Mounting: Use the two mounting holes in the base.

Flush Mounting: Requires optional Model 75-FM Flush Mounting Kit.

Dimensions





	Inches	Millimeters
A	3.00	76.2
B	3.50	88.9
C	4.00	101.6
D	2.50	63.5
E	1.00	25.4
F	0.25	6.4
G	0.19	4.8
H	0.38	9.5