

C50-ECS

Universal Capacitor & Start Relay Unit for PSC Motors

Quickly and easily repair the most common problems with failed centrifugal starting switches in single phase electric motors

Model Name C50-ECS

Operating voltage 220 VAC, 50/60 Hz

Application Pumps, Compressors



Dimensions: 6.25" L X 3" D x 2.75" W



Description

A C-ECS combines a capacitor and electronic centrifugal switch into a single sealed housing for repair and replacement of a failed mechanical centrifugal switch - starter relay. This weather-resistant package can easily be retrofitted onto the exterior of the motor frame where appropriate. The integrated electronic centrifugal switch uses a TRIAC semiconductor circuit to model the starting torque of the motor and engage or disengage the starting coil in single phase electric motors.

Features

- * Unlimited life span of centrifugal switch & switching contacts.
- * Improved motor starting efficiency and control.
- * Eliminates switching noise and contact trembling.
- * Protects auxiliary windings with integrated monitoring and control programming.
- * Stops and resets unwanted reverse motor rotation.
- * Mounted off and away from the motor shaft, either within or outside of the motor frame.
- * Integrated package eliminates the need for adding or replacing a capacitor.

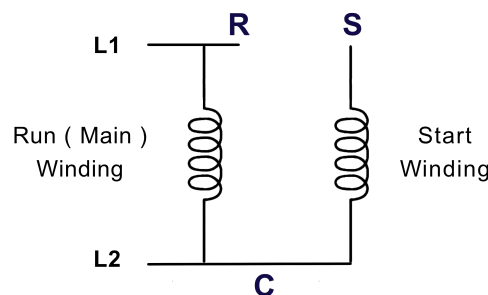
Electrical Characteristics (Typical)

Parameter	Value	Unit
Line Voltage	200-240	VAC
Non repetitive peak current @ half cycle, 50/60 Hz	240	A
Thermal Impedance @ 8.0 sec	0.8	C/W
Initial Switch-on delay time	2.0	Cycle
* Discharge Resistance	10.0	
** Maximum number of successive starts	9	
Forced switch-off starting coil voltage	320-350	VAC
Dielectric strength between case and pins	2500+	VDC
Insulation resistance between case and pins	10+	
Ambient Air temp	-20 -60	
*** Forced cut off time for pull-up speed (nominal)	1.2	Sec

Wiring Details

Black => Line R
 White => Neutral C
 Blue => Capacitor S

Split Phase Motor Circuit



PSC Motor Circuit

