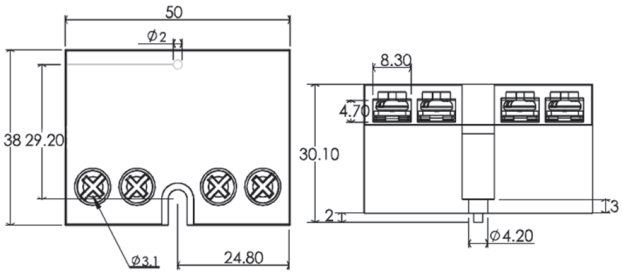
Model Name ECS125T
Operating voltage AC 110V, 50/60Hz
Application CSIR or CSCR Motors (0.18~2.2kW)



Approvals RoHS

IEC/ EN 60730-1 (Automatic electrical controls for household and similar use)
IEC/ EN 60730-2-10 (particular requirements for motor-starting relays)

Description

This model is a MCU embedded electronic switch that is designed to activate or deactivate a semiconductor device, TRIAC, as a function of the motor rotating speed and the corresponding motor starting torque.

Feature

Extended life span of switching contacts
High compatibility with various motor designs
Improved motor starting efficiency
Neither switching noise nor trembling of contacts
Protect auxiliary windings or start capacitors
Return immediately from unwanted reverse motor rotation
Mounted on either inside / outside motor frames
Discharge start capacitors with built-in resistors

Electrical characteristics (Typical)

Parameter	Value	Unit
Line voltage	100~120	VAC
Non repetitive peak current @ half cycle, 50/60Hz	240	A
Thermal impedance @ 8.0sec	0.8	°C/W
Initial switch-on delay time	2.0	Cycle
* Discharge resistance	5.0	KΩ
** Forced switch-off locked rotor time, 60Hz (50Hz)	7.0 (8.4)	sec
** Maximum Number of successive restarts	9	-
Forced switch-off starting coil voltage	220~250	VAC
Dielectric strength, between case and pins	2500+	VDC
Insulation resistance, between case and pins	10+	MΩ
Ambient air temperature	-20~60	°C

* For frequent (heavy duty) restarts, it is recommended to connect an additional discharging resistor in parallel with a starting capacitor.
** These are initialized by either a power interruption or a successful motor run state.

Wiring (Typical)

Cs: Start capacitor, Cr: Run capacitor, M1/M2: Main coil, ST: Auxiliary coil

100~120VAC 50/60Hz Motor Operation	200~240VAC 50/60Hz Motor Operation