ECS112PS

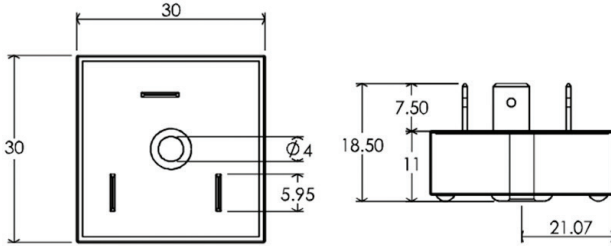Electronic Centrifugal Switches for Resistance Start Motors

Model Name ECS112PS
Operating voltage AC 110V, 50/60Hz
Application RSIR Motors (0.18~1.1kW)

Approvals

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 or outside motor frames

Electrical characteristics (Typical)

Parameter	Value	Unit
Line voltage	100~120	VAC
Non repetitive peak current @ half cycle, 50/60Hz	120	A
Thermal impedance @ 8.0sec	2.4	°C/W
Initial switch-on delay time	2.0	Cycle
* Forced switch-off locked rotor time, 60Hz (50Hz)	7.0 (8.4)	sec
Dielectric strength, between case and pins	2500+	VDC
Insulation resistance, between case and pins	10+	MΩ
Ambient air temperature	-20~60	°C

* This is initialized by either a power interruption or a successful motor run state.

Wiring (Typical)

M1/M2: Main coil, ST: Auxiliary coil

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