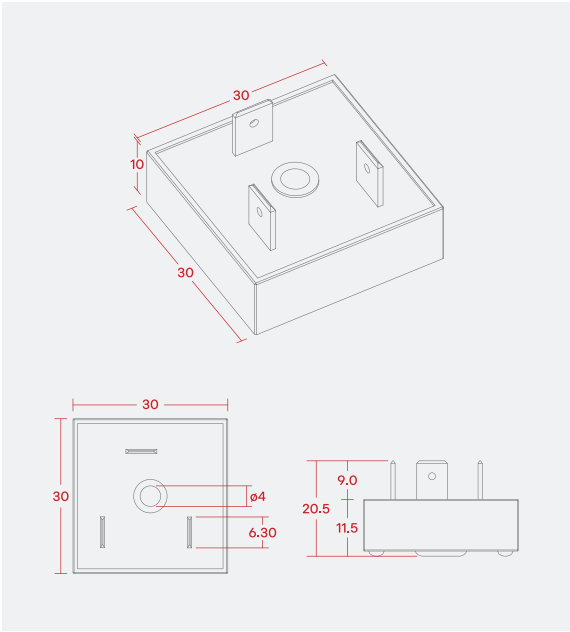


Description
This models are MCU embedded electronic switches that are designed to activate or deactivate semiconductor devices, TRIAC, as a function of the motor rotating speed and the corresponding motor starting torque.

Operating voltage
AC 115V, 50/60Hz

Application
Capacitor Start (& Capacitor Run) Motors for Fans, Pumps, Compressors, etc

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

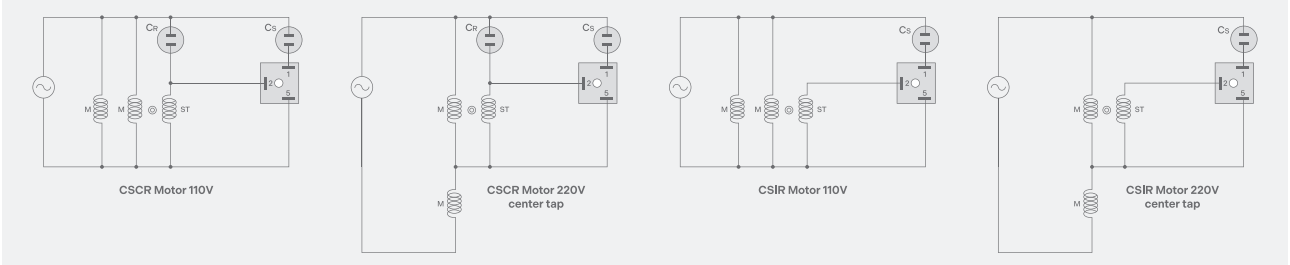
Features
- Extended life span of swtich contacts (over 1 milion cycles)
- Compatible with most motor designs (manufacturer independent)
- Improved low voltage starting
- Silent switching without contact debouncing
- Protect auxiliary coils and start capacitors from overload
- Mounted on either inside or outside motor frame
- RoHS Compliant

Electrical Characteristics (Typical)

Parameter	Description			Unit
Applicable 1P AC motor (CS: Capacitor Start, CR: Capacitor Run, IR: Induction Run)	Start type	CS/RS/IR/CR	CSIR, CSCR	-
	Voltage	TOL (+10%/-15%)	115	Vac
	Output	Min. - Max.	0.5 - 2.0	hp
	Accel. time, Tacc	-	2.0	sec
Maximum on-state current, Imc @ 25°C, Ton = Tacc			30	A
Intermittant starting time duty @ 25°C, Ton = 80% Tacc (Ic: current through startup winding or start capacitor, Ton: on-state time)		Ic = 0.6 x Imc	15	%
		Ic = 1.0 x Imc	5	%
Forced cut-off time due to overload [1] (60Hz / 50Hz)			4.0	sec
Power on delay time (60Hz / 50Hz)			0.03 / 0.04	sec
Motor run-time for discharging start capacitor [2] @ 25°C, Cs = 100uF			1.2	sec
Forced cut-off auxiliary coil voltage			200	Vac
Int. certifications			UL, CCC, TUV, CE	-
Ambient temperature			(-20) ~ 60	°C

1. This is initialized by either power interruption or successful motor run state.
2. For frequent or reversible motor startings, please add one or more bleeder resisters (appx. 10kΩ-3W) between start capacitor pins.

Wiring



* CS: Start capacitor / CR: Run capacitor / M: Main coil / ST: Auxiliary coil