ECS 112P/125P FOR CAPACITOR START (& RUN) INDUCTION MOTORS

MODEL CHART

Model	Switching	Motor Ratings				
Wiodei	Part	Нр	Aux. Coil Rating Volt	Pole	Frequency	
ECS112P	T1235-600G	O.12~1.0Hp	100~120 VAC	2, 4, 6	50/60Hz	
ECS125P	T2535-600G	O.5~3.0Hp				

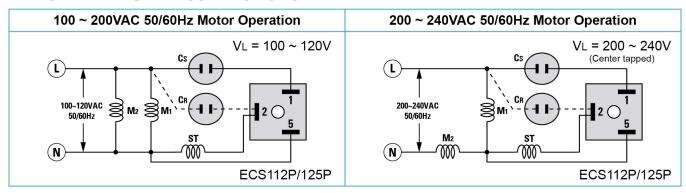
^{*}These models are designed for both capacitor start motors and two (start + run) capacitor motors. For motor operating voltage of 220VAC, please refer to typical wiring diagram of this datasheet.

FUNCTION SPECIFICATION (TYPICAL RATINGS OTHER THAN SPECIFIED)

Parameter	112P	125P	Unit	
Initial switch-on delay time	60Hz	32		ms
illitial Switch-on delay tillie	50Hz	40		ms
Max. capacitor current for 5.0 sec, Tc=25°C		55		A
Non repetitive peak on-state current,	60Hz	126	260	А
a half cycle, Tc=25°C	50Hz	120	250	Α
Restart delay time ¹ , Tc= 5°C, VL=110V		500		ms/200uF
Forced switch-off locked rotor time	10.8		sec	
Forced switch-off starting coil voltage	200		V	
Min. line voltage, VL	80		V	
Max. line voltage, VL	140		V	
Dielectric strength, between case and pins	>2500		VDC	
Insulation resistance, between case and pins	>7		ΜΩ	
Ambient air temperature	60		°C	

^{1.} The time elapses while the motor is running or de-energized. Please connect an additional discharging resistor in parallel with starting capacitor where frequent and quick restarts are mandatory.

TYPICAL WIRING AND CONNECTIONS



 $\textbf{CS-} \textbf{Starting Capacitor}, \, \textbf{CR-} \textbf{Run Capacitor}, \, \textbf{M1, M2-} \textbf{Main Coils}, \, \textbf{ST-} \textbf{Starting Coil}$

112P / 125P	Type	Pin 1	Pin 2	Pin 5
Capacitor Start & Run Motors	3 Pin	Connect to one pin of starting capacitor.	Connect to one end of auxiliary (ST) coil.	Connect to the other end of auxiliary (ST) coil which is common to the main coil.

CERTIFICATION









IEC/EN 60730-1 (Automatic Electrical Controls for Household and similar use) IEC/EN 607630-2-10 (Particular Requirements for Motor-Starting Relays)