Overview of Standard Product Offering

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Updated; Nov.4th 2022

Series	Typical Max. Motor hp	Typical Full Load Motor Nameplate Current Rating (amps)			Switch Rating & Permissible Maximum Start Circuit Current (amps)	Start Circuit Voltage	Catalog Number	Part Number	Cut Out Voltage Typical	Cut In Voltage Typical	Pkg. Style	Catalog Page	Samusco ECS series
		115 Volts	115/230 Volts	230 Volts									
CV Series – for Capacitor Start Motors Only	2	20	20/10		40	115	CV-40-130	4-7-21040-11-UA3	130	30	11	7-8	ECS125P ECS124L
	2	20	20/10		40	115	CV-40-147	4-7-21040-11-UB3	147	37	11	7-8	
	2	20	20/10		40	115	CV-40-165	4-7-21040-11-U03	165	37	11	7-8	
	3	25	25/12.5		50	115	CV-50-165	4-7-21S50-12-U03	165	37	12	7-8	ECS124L
	3	25	25/12.5		50	115	CV-50-180	4-7-21S50-12-UD3	180	50	12	7-8	
VR Series - for Capacitor Start/ Capacitor Run Motors Only	3	25	25/12.5		50	115	VR-50-130	4-7-71050-12-UA3	130	30	12	9-10	
	3	25	25/12.5		50	115	VR-50-147	4-7-71050-12-UB3	147	37	12	9-10	
	3	25	25/12.5		50	115	VR-50-165	4-7-71050-12-U03	165	37	12	9-10	
	3	25	25/12.5		50	115	VR-50-210	4-7-71050-12-UV3	210	50	12	9-10	
2CV Series – for Capacitor Start Motors Only	5			25	50	230	2CV-50-310	4-7-22050-15-U03	310	70	15	11-12	ECS225P ECS224L
2VR Series – Capacitor Start/ Capacitor Run Motors Only	5			25	50	230	2VR-50-260	4-7-72050-15-UC3	260	70	15	11-12	
	5			25	50	230	2VR-50-310	4-7-72050-15-U03	310	70	15	11-12	
IR Series – for Instant Reverse Capacitor Start Motors Only	2	20	20/10		40	115	IR-40-130	4-7-51040-15-UA3	130	30	15	13-15	ECS125P ECS124L
	2	20	20/10		40	115	IR-40-165	4-7-51040-15-U03	165	37	15	13-15	

CV – 16 – 165

Start Winding Voltage
blank = 115, ***2*** = 230

Cut Out Voltage

Maximum Current Rating

Series
CV - Capacitor Start Only, ***VR*** = Capacitor Start/Capacitor Run Only, ***IR*** = Capacitor Start Instant Reverse
IVR =Capacitor Start/Capacitor Run Instant Reverse

This feature would be added to ECS225L (a new 220V relays, the same package used in ECS224L) However it wouldn't be UL cetified until probably 1Q 2023

4–7–21016–11–U01

- Electronics
- ***7*** = SINPAC Switch
- ***2*** = CV Series - Capacitor Start Only
- ***3*** = Made-To-Order (MTO)*
- ***5*** = IR Series - Capacitor Start Only
- ***7*** = VR Series - Capacitor Start/ Capacitor Run Only
- ***8*** = IVR Series - Capacitor Sart/ Capacitor Run
- ***1*** = 115 Start Circuit Voltage
- ***2*** = 230 Start Circuit Voltage
- ***0*** = Standard
- ***A*** = Inductor
- **Amps (max. current)**
  12, 16, 25, 35, 40, 50
- ***3*** = Standard, ***K*** = Kit
- **115 V SINPAC Switch**
  A = 130 VCO, ***B*** = 147 VCO, ***0*** = 165 VCO
  D = 180 VCO
  L = 130 VCO 15 VCI
  V = 210 VCO
- **230 V SINPAC Switch**
  C = 260 VCO, ***0*** = 310 VCO, ***E*** = 410 VCO
  M = 340 VCO, ***S*** = 350 VCO
- ***U*** = UL Recognized, ***N*** = Not UL
- **Package Style**
  11 = Metal Can 2.48 x 1.38 x .81
  12 = Metal Can 2.67 x 1.78 x .86
  15 = Capacitor Case 1.822 dia. x 3.372 long

*__NOTE:__ For part numbers beginning with 473 (these are OEM specials), the remaining digits of this numbering system do not apply.

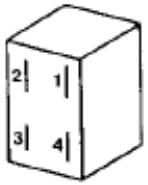
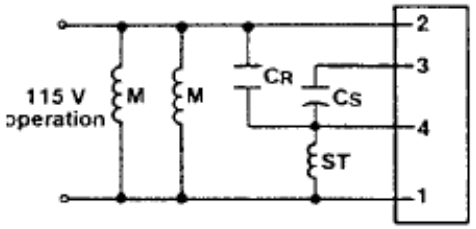
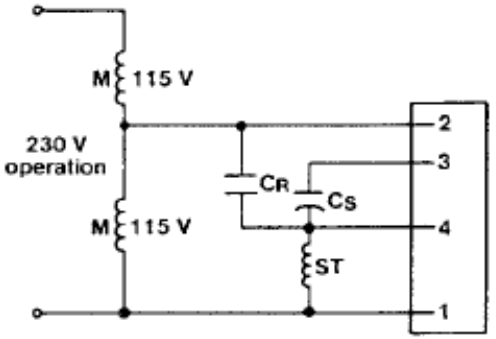
CV – 16 – 165

- **Start Winding Voltage**
  blank = 115, ***2*** = 230
- **Series**
  CV - Capacitor Start Only, ***VR*** = Capacitor Start/Capacitor Run Only, ***IR*** = Capacitor Start Instant Reverse
  IVR =Capacitor Start/Capacitor Run Instant Reverse
- Maximum Current Rating
- Cut Out Voltage

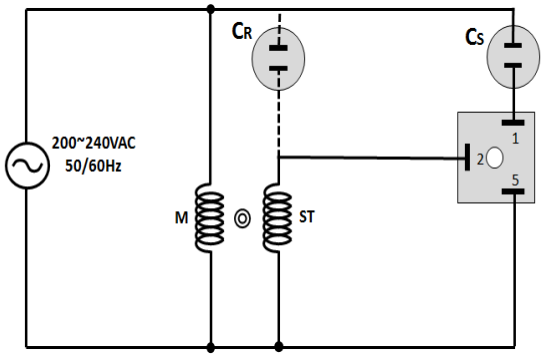
This feature would be added to ECS225P(220V) and ECS125P(110V) from Oct. 2022

Wiring Diagram

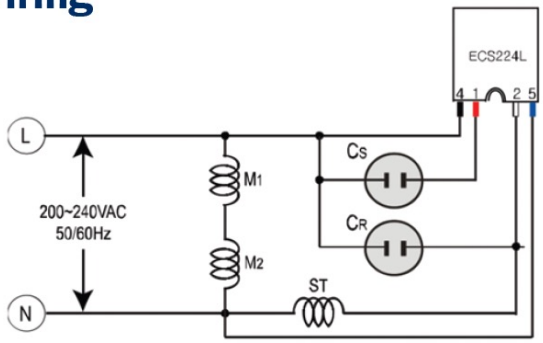
SINPAC

Catalog Number	SINPAC Switch Rating	115 Volt 50/60 Hz Motor Operation	230 Volt 50/60 Hz Motor Operation
VR-16 VR-40 VR-50 *Connect to Capacitor Start/ Capacitor Run Motors*			

ECS



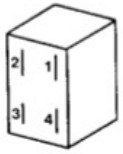
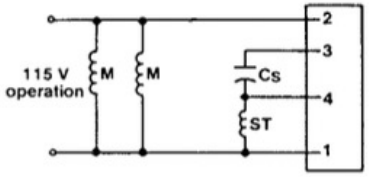
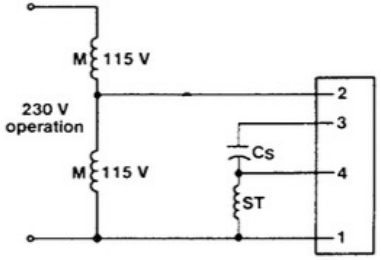
Wiring



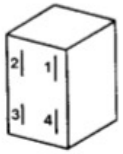
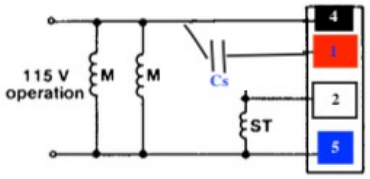
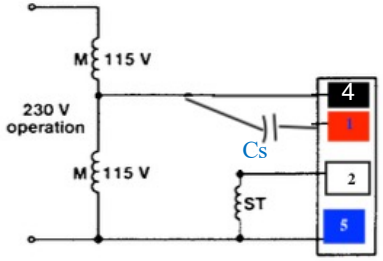
Cs: Start capacitor, Cr: Run capacitor, M1/M2: Main coil, ST: Auxiliary coil

Wiring Diagrams for SINPAC Switches

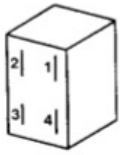
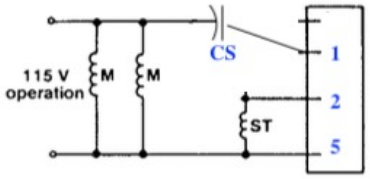
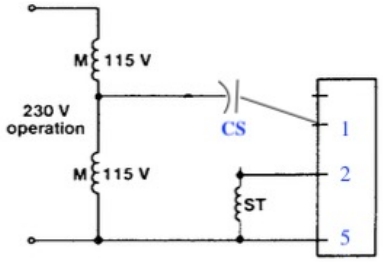
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Catalog Number	SINPAC Switch Rating	115 Volt 50/60 Hz Motor Operation	230 Volt 50/60 Hz Motor Operation
CV-16 **CV-25** **CV-40** **CV-50** *Connect to Capacitor Start Motors Only*	115 Volts 		

ECS124L

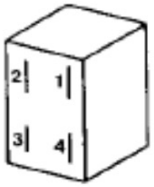
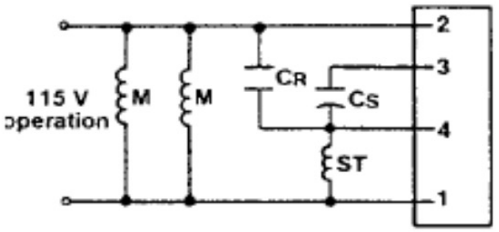
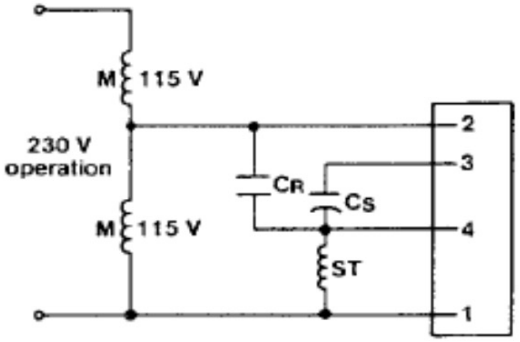
CV-16 **CV-25** **CV-40** **CV-50** *Connect to Capacitor Start Motors Only*	115 Volts 		

ECS125P

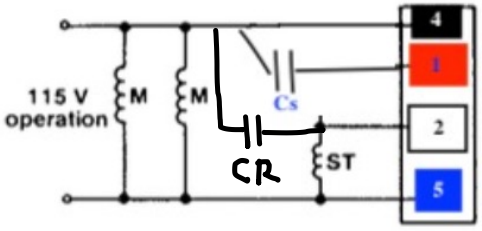
CV-16 **CV-25** **CV-40** **CV-50** *Connect to Capacitor Start Motors Only*	115 Volts 		

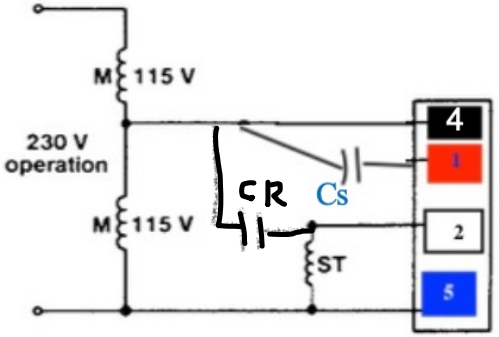
Wiring Diagram

SINPAC

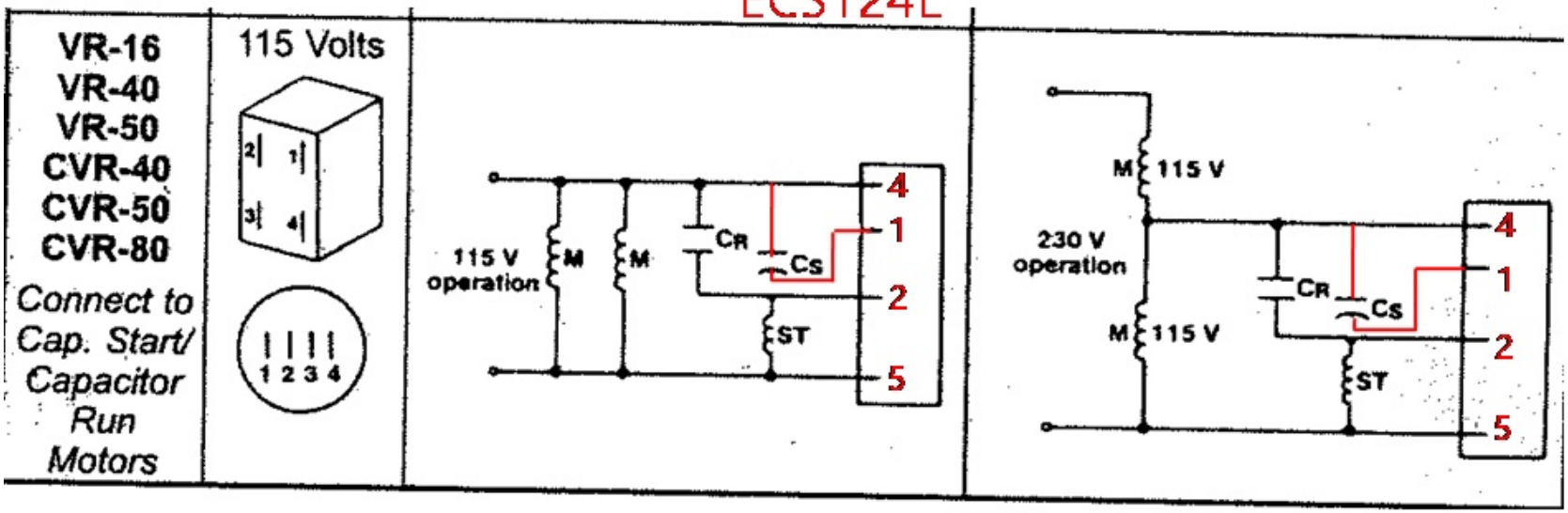
Catalog Number	SINPAC Switch Rating	115 Volt 50/60 Hz Motor Operation	230 Volt 50/60 Hz Motor Operation
VR-16 VR-40 VR-50 *Connect to Capacitor Start/ Capacitor Run Motors*			

ECS124L





ECS124L



ECS125P

