

**Single-Phase/3-Phase Integrated Models**  
in **SMC** Enclosures (conforming to **IP54**) are available as  
**SWADEEP-02EC-...kW...P**



**Single-phase Standard Ratings:**  
**3kW/5kW/8kW/12kW**

**Three-Phase Standard Ratings:**  
**5kW/8kW/12kW/25kW**

No. of Phase	Model	Contactor Rating (AC3)	MCB Rating	Max. Total Load	Circuit Wiring (Copper)
<b>SINGLE PHASE</b>	<b>Swadeep-02EC-3kW1P</b>	25 Amps	25 Amp	3-5 kW	10 sq. mm
	<b>Swadeep-02EC-5kW1P</b>	40 Amps	40Amp	5-8 kW	10 sq. mm
	<b>Swadeep-02EC-8kW1P</b>	63 Amps	63Amp	8-10 kW	16 sq. mm
	<b>Swadeep-02EC-12kW1P</b>	75 Amps	80Amp	12-15 kW	25 sq. mm
<b>THREE PHASE</b>	<b>Swadeep-02EC-5kW3P</b>	16 Amps per phase	20Amp	5-8 kW	10 sq. mm
	<b>Swadeep-02EC-8kW3P</b>	25 Amps per phase	32Amp	8-12 kW	10 sq. mm
	<b>Swadeep-02EC-12kW3P</b>	40 Amps per phase	40Amp	12-18 kW	10 sq. mm
	<b>Swadeep-02EC-25kW3P</b>	63 Amps per phase	63Amp	25-30 kW	16 sq. mm

**MAKE**

**Nature Switch:** Kakatiya Energy Systems/Bajaj/Healer Enterprises  
**Contactor make:** L&T/BCH/Schneider  
**MCB make:** Hager/Schneider/L&T(Exora)/Legrand  
**Enclosure & Circuit Sheet:** Sintex (IP54) or equivalent  
**Circuit Wiring:** Polycab/Finolex

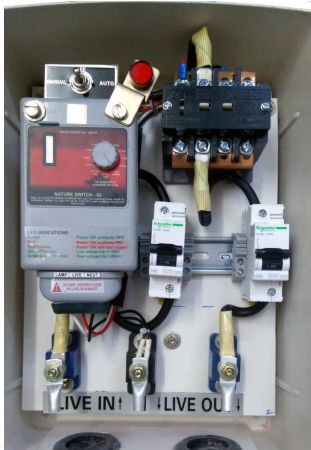
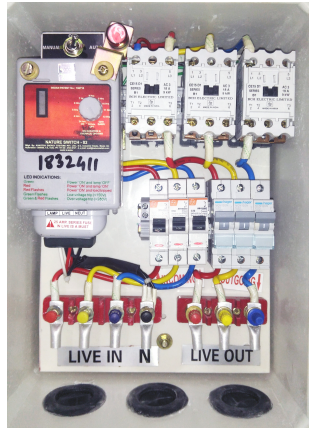
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# General Specifications of Single-Phase/3-Phase Integral Unit with IP54 Enclosure (SMC), available as SWADEEP-02EC...kW...P:

Supply & fixing of Automatic Street Light Control Switch using **Infrared Sensor** based **NATURE SWITCH** for automatic switching of Street Lights. Nature Switch operation should be based on Natural Light Lux\* level. Required Illuminance Level for Switching ON is  $\leq 60$  Lux and for Switching OFF  $\geq 10$  Lux. The Sensor should also have part night operation facility of min. 4 hrs to max. 12 hrs.

The Sensor along with suitable Power Contactor(s) and Incoming-Outgoing MCBs should be enclosed in a pole/wall mountable Rust Proof, Electric Shock Proof, Termite proof and FR grade **SMC Enclosure conforming to IP54**. The circuit should also have provision for Manual Operation (i.e. Sensor By-Pass option).

**The Circuit should be suitable enough to take:**

<b>SINGLE - PHASE</b>	<b>Single-Phase load of 3kW (Swadeep-02EC-3kW1P)</b> with: Contactor, Incoming MCB & Outgoing MCB rating of 20-25 Amps & main load Circuit Wiring (Copper) of min. 10 sq.mm	
	<b>Single-Phase load of 5kW (Swadeep-02EC-5kW1P)</b> with: Contactor, Incoming MCB & Outgoing MCB rating of 25-40 Amps & main load Circuit Wiring (Copper) of min. 10 sq.mm	
	<b>Single-Phase load of 8kW (Swadeep-02EC-8kW1P)</b> with: Contactor, Incoming MCB & Outgoing MCB rating of 40-63 Amps & main load Circuit Wiring (Copper) of min. 16 sq.mm	
	<b>Single-Phase load of 12kW (Swadeep-02EC-12kW1P)</b> with: Contactor, Incoming MCB & Outgoing MCB rating of 70-80 Amps & main load Circuit Wiring (Copper) of min. 25 sq.mm	
<b>THREE-PHASE</b>	<b>Three-Phase load of 5kW (Swadeep-02EC-5kW3P)</b> with: 3 nos. Contactors, 3 nos. Incoming MCBs & 3 nos. Outgoing MCBs of 16-20 Amps each & Circuit wiring (Copper) of min.10 sq.mm	
	<b>Three-Phase load of 8kW (Swadeep-02EC-8kW3P)</b> with: 3 nos. Contactors, 3 nos. Incoming MCBs & 3 nos. Outgoing MCBs of 20-32 Amps each & Circuit wiring (Copper) of min.10 sq.mm	
	<b>Three-Phase load of 12kW (Swadeep-02EC-12kW3P)</b> with: 3 nos. Contactors, 3 nos. Incoming MCBs & 3 nos. Outgoing MCBs of 32-40 Amps each and Circuit wiring (Copper) of min.10 sq.mm.	
	<b>Three-Phase load of 25kW (Swadeep-02EC-25kW3P)</b> with: 3 nos. Contactors, 3 nos. Incoming MCBs & 3 nos. Outgoing MCBs of 40-63 Amps each and Circuit wiring (Copper) of min.16 sq.mm	

**Make:**

<b>Nature Switch:</b>	Kakatiya Energy Systems/BAJAJ/Healer
<b>Contactors:</b>	BCH/L&T/Schneider
<b>MCBs:</b>	HAGER/Schneider/L&T (Exora)
<b>Enclosure &amp; Circuit Sheet:</b>	Sintex or equivalent
<b>Circuit Wiring:</b>	Polycab/Finolex or equivalent
<b>Contactor should Conform to IEC-60947-4-1 / IS-13947-4-1 and MCBs should Conform to IEC-60898 / IS-8828</b>	

\*The Lux is the SI derived unit of illuminance and luminous emittance, measuring luminous flux per unit area

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