



SAVEAIR
Technologies Pvt Ltd



Product Catalogue

Contact For Any Enquiry

📍 25/1, 12th Avenue, Ashok Nagar, Chennai-600083.

☎ 044- 4858 4456 📞 9840261043

✉ marketing@saveairtechnologies.com

🌐 www.saveairtechnologies.com

Astronomical Time Switch *Astro*[®]

- Dynamic and Accurate control based on Astronomical Mathematics
- Sunrise / Sunset or Twilight rise / set trigger
- Yearly programming with Season mode, DST, Offset, OFF hours, Weekly Off features
- Protection against Under Voltage and Over Voltage
- Alternate Mode with Auto Load Changeover feature
- Active Phase selection
- Manual override facility
- Single phase and Three phase versions
- Modbus Communication
- User friendly software for device configuration



Ordering Information

Cat. No.	Description
T2DDT0	110 - 240 VAC, Astro with Two Independent Channel Output, 2 NO
T3DDT0	110 - 240 VAC, Astro with Three Independent Channel Output, 3 NO
TGDDT6	Windows based Application software for Astro
GFDNN1	USB Interface Cable
GFDNN2S	RS 232 Serial Interface Cable
GFDNN3M	Memory Card

Astronomical Time Switch *Astro*[®]



Cat. No.		T2DDT0	T3DDT0
Parameters			
Supply Voltage (φ)		110 - 240 VAC	110 - 240 VAC (3 Phase, 4 Wire)
Supply Variation		-20 % to +10% (of φ)	
Frequency		50/60 Hz	
Programming		Based on Latitude/Longitude precise to the minute with time-zone	
Trigger Modes		Sunrise/Sunset or Twilight Rise/Set	
Offset		1 min to 23 hr 59 min (Programmable)	
OFF Hours		Programmable	
Weekly Off		User Defined	
Alternate Mode		Yes	
Seasonal Mode		User Defined	
DST		User Defined	
Number of Operating Modes		3	
Mode Description		• AUTO - As per user defined program settings • ON AUTO - Instant ON up to next Auto Event • AUTO OFF - Instant OFF up to next Auto Event	
Minimum Switching Time		1 min (1s for Pulse)	
Display		Backlit LCD	
Under Voltage Trip Level		N A	0 - 220 V (Settable)
Over Voltage Trip Level		N A	130 - 330 V (Settable)
Trip Time		N A	5 - 16 sec
Recovery Time		N A	1 - 4 sec
Clock Accuracy		± 1 s/day max. over the Operating Temperature range	
Power Reserve from Factory		6 years	
Output	Relay Output	2 NO	3 NO
	Contact Rating	8A @ 240 VAC & 5A @ 30 VDC (Resistive)	
	Electrical Life	1x10 ⁵	
	Mechanical Life	1x10 ⁷	
Utilization Category	AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3/1.5 A	
	DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.11 A	
Operating Temperature		-10°C to + 50°C	
Storage Temperature		-10°C to + 60°C	
Humidity (Non Condensing)		95% (Rh)	
Enclosure		Flame Retardant UL94-V0	
Dimension (W x H x D) (in mm)		72 X 90 X 65	
Weight (unpacked)		190 g	208 g
Mounting		Base / DIN rail	
Certification		  	
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure	

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

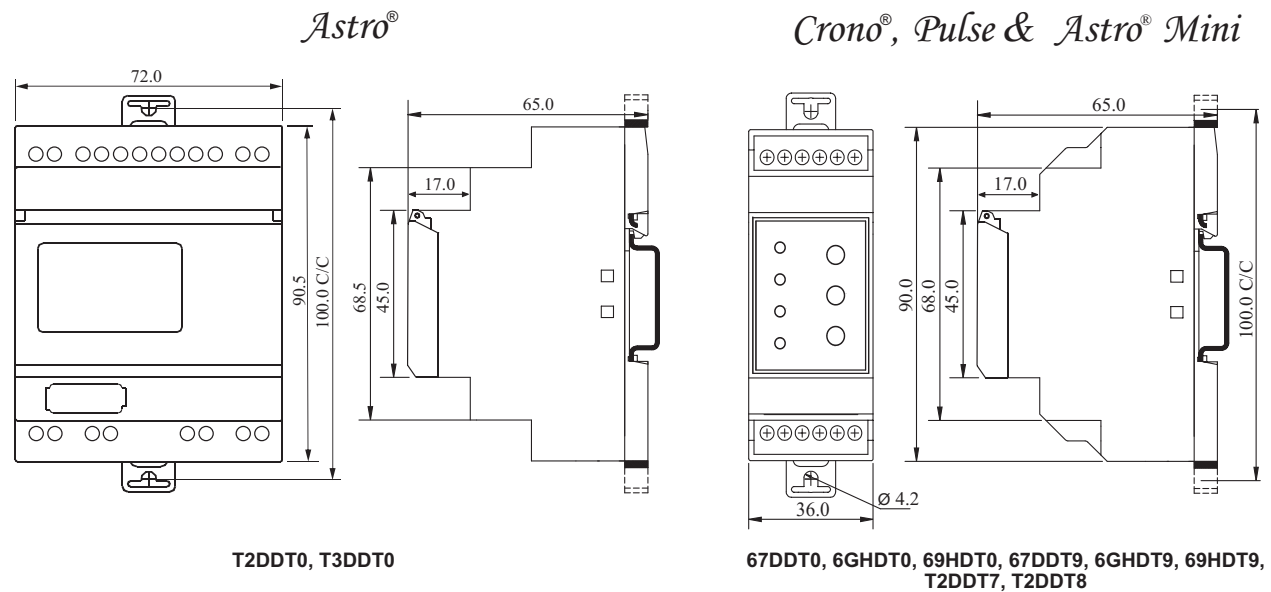
Environmental

Cold Heat	IEC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6
Repetitive Shock	IEC 60068-2-27
Non-Repetitive Shock	IEC 60068-2-27

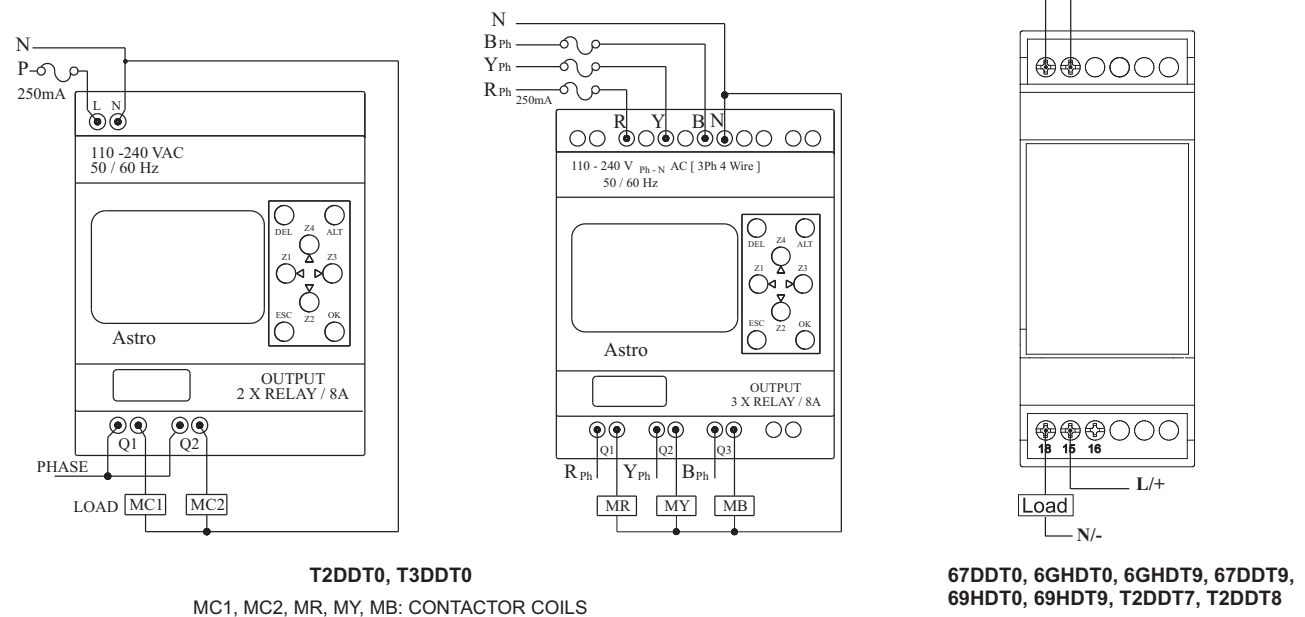
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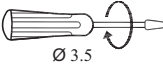
MOUNTING DIMENSION (mm)



CONNECTION DIAGRAM



TERMINAL TORQUE & CAPACITY

	0.54 N.m (6 Lb.in)
	1 x 2.5 mm ² Solid Wire/Stranded
AWG	1 x 24 to 12

T2DDT0, T3DDT0, T2DDT7, T2DDT8, 67DDT0, 67DDT9