





Timing Devices, Supply Monitors & ELR

Timers [9107]

Micon 175	Type	Time	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹)	
						Per Unit	
	ON Delay	0.3 sec - 30 hrs	240 VAC/24 VAC/DC	1 C/O	12ODT4	770	
			110 VAC/24 VAC/DC			110DT4	1200
			12 VDC			15ODT4	980
	ON Delay & Interval	0.1 sec - 100 hrs	240 VAC/24 VAC/DC	1 C/O	12WDT4	955	
	Star Delta Timer	3 sec - 120 sec	240 VAC	1 NO (Star)+1 NO (Delta)	12SDT0	870	
		3 sec - 30 sec	240 - 415 VAC	1 C/O (Star)+1 C/O (Delta)	14SDT1S	1265	
	Signal OFF Delay	0.3 sec - 30 hrs	240 VAC/24 VAC/DC	1 C/O	12RDT4	900	
		0.3 sec - 30 hrs	12 VDC			15DDT4	980
	Multifunction Timer	0.1 sec - 100 hrs	12 - 240 VAC/DC	1 C/O	1CMDT0	1530	
				2 C/O	1CMDTF	1630	
	Asymmetrical ON/OFF & OFF/ON	0.1 sec - 100 hrs	12 - 240 VAC/DC	1 C/O	1CJDT0	1530	
	One Shot	0.3 sec - 30 hrs	110 VAC/24 VAC/DC	1 C/O	11BDT4	1140	
240 VAC/24 VAC/DC			12BDT4			1140	
12 VDC			15BDT4			1200	
Forward Pause Reverse Timer	ON time : 6 sec -60 min Pause time : 0.1 sec-200 sec	12 - 240 VAC / DC	2 C/O	1CZDTF	1630		

Pause time for Micon 175 star delta timer is 60 msec

1CMDT0 contains ON Delay, Impulse, Signal ON delay, Cyclic ON/OFF, Cyclic OFF/ON, Signal OFF Delay, Signal OFF/ON, Accumulative Delay ON signal, Impulse ON/OFF, Leading edge impulse, Trailing edge impulse, Leading edge Bistable

Micon 225	Type	Timing Range	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹)
						Per Unit
  	ON Delay	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2AODT5	1395
	Star Delta Timer	3 sec - 120 sec	24 - 240 VAC/DC	1 NO (Star)+1 NO (Delta)	2ASDT0	1465
			240 - 415 VAC			2BSDT0
	Multifunction Timer	0.1s to 120 days	24 - 240 VAC/DC	2 C/O (1 Inst+1 Delayed)	2A8DT6	1565
	Multifunction Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2A5DT5	1550
			240 - 415 VAC			2B5DT5
	Signal Base Multi function - Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	1 C/O	2ANDT0	1645
	Multifunction Timer 6 Functions	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O (1 Inst+1 Delayed for 6th Mode)	2A6DT6	1660
			240 - 415 VAC			2B6DT6
	True OFF Delay	0.6 sec - 600 sec	24 - 240 VAC/DC	2 C/O	23GDT0	2435
Asymmetrical ON/OFF	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2AADT5	1755	


Pause time for Micon 225 star delta timer is 60 msec, 90 msec, 120 msec, 150 msec

Major timing functions


2A5DT5, 2B5DT5, 2A6DT6* and 2B6DT6* contains ON Delay, Interval, Cyclic ON/OFF, Cyclic OFF/ON, One Shot, ON Delay, On Delay (1 Inst + 1 Delayed)*

2ANDT0 contains ON Delay, Interval, Signal ON Delay, Accumulative ON Delay, Signal OFF Delay, Signal OFF/ON Delay, Leading edge impulse


2A8DT6 contains ON Delay, Impulse, Signal ON delay, Signal OFF delay, Step mode, One shot, Interval, Cyclic ON/OFF, Cyclic OFF/ON, Signal OFF Delay, Accumulative Delay ON signal, Impulse ON/OFF.


Digital Timer DIGICON 	Functions	Time	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	8 Functions	0.1 sec - 999 hrs	24 - 240 VAC/DC	1 C/O	V0DDTS	1655
			24 - 240 VAC/DC	2 NO	V0DDTD	1655
	18 Functions	0.1 sec - 999 hrs	24 - 240 VAC/DC	1 C/O	V0DDTS1	1875
24 - 240 VAC/DC			2 NO	V0DDTD1	1875	

V0DDTS and V0DDTD contains On Delay, Signal OFF Delay, Cyclic ON/OFF, Signal OFF/ON, Cyclic OFF/ON, Interval, Signal ON/OFF, One Shot output
V0DDTS1 and V0DDTD1 contains ON Delay, Cyclic OFF/ON, Cyclic ON/OFF, Impulse on energizing, Accumulative Delay ON Signal, Accumulative Delay on Inverted signal, Accumulative Impulse ON signal, Signal ON Delay, Inverted Signal On delay, Signal OFF Delay, Impulse ON/OFF, Signal OFF/ON, Leading edge impulse, Trailing edge impulse, Delayed impulse, Negative edge impulse.


Motor Restart Timer 	Type	Timer	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	Motor Restart Timer	Memory time Tm: 0.2 to 6 sec	110 VAC	1 C/O	23LDT0	1830
		Delay time Td: 0.2 to 60 sec	240 VAC		22LDT0	1830

Time Switches [9107]

FM1 / Quartz  150 Hrs Battery Backup	Product Description			Cat. No.	M.R.P. (₹) Per Unit
	FM1 / Quartz Daily	240 VAC Base/DIN Mounting		J648B1	2550
		110 VAC Base/DIN Mounting		J638B1	3465
		240 VAC Flush Mounting		J648F1	3220
		110 VAC Flush Mounting		J638F1	3360
	FM1 / Quartz Weekly	240 VAC Base/DIN Mounting		J848B1	3465
		110 VAC Base/DIN Mounting		J838B1	3465
		240 VAC Flush Mounting		J848F1	3355
		110 VAC Flush Mounting		J838F1	3355

Digital Time Switch  Crono Pro Crono / Pulse	Product Description			Cat. No.	M.R.P. (₹) Per Unit
	Time Switch (Crono)	110 - 240 VAC 1 C/O Base/DIN 25 ON/OFF Each		67DDT0	2310
		24 VDC 1 C/O Base/DIN 25 ON/OFF Each		6GHDT0	2670
		12 VDC 1 C/O Base/DIN 25 ON/OFF Each		69HDT0	2810
	Time Switch (Crono Pro)	110 - 240 VAC 2 C/O Base/DIN 50 ON/OFF Each		WT2DCDS	3105
	Time Switch (Pulse) *	110 - 240 VAC 1 C/O Base/DIN 16 Pulse		67DDT9	2500
		24V DC 1 C/O Base /Din 16 Pulse		6GHDT9	2825
		12V DC 1 C/O Base /Din 16 Pulse		69HDT9	2970

* For bell and siren application

Astro  Astro Pro Astro Mini	Product Description			Cat. No.	M.R.P. (₹) Per Unit
	Astro Mini	110 - 240 VAC 1 Phase - 2W 1 C/O , Base/Din		T2DDT7	4305
	Astro Pro	110 - 240 VAC 1 Phase - 2W 2 C/O , Base/Din 50 ON/OFF Each		AS2DCDS	5370
	Astro	110 - 240 VAC 3 Phase - 4W 3 Channel 3 N/O , Base/Din		T3DDT0	10560



Note : Astro Mini / Astro Pro is used for lighting control based on sunrise / sunset timings by latitude / longitude settings.

Supply Monitoring Devices [9032]

- SPP includes single phasing, phase sequence and phase unbalance monitoring with auto reset



Voltage Monitoring Relay Series	Type	Supply Monitoring Type	Time delay	Asymmetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit				
	 SM 301	SM301 (3Ph, 3W)	Single Phasing Preventor (SPP*) Fail Safe Type	ON Delay 2 sec and OFF Delay 7 sec	65 VAC Asymmetry	415 VAC, 1 C/O	MA51BC	1010			
40 VAC Asymmetry					415 VAC, 2 C/O	MC21B5	1475				
 SM 500	SM301 (3Ph, 3W)	Phase loss monitoring Non Fail Safe Type	OFF Delay 500 msec and Recover Delay 2 Sec	30% Fixed	415 VAC, 1 C/O	MA59B5	1160				
						Selectable Under Voltage + Selectable Over Voltage	Selectable ON Delay (0 to 15 min)	-	240 VAC, 1 C/O	MD71B9	1515
							Selectable ON Delay (0 to 15 sec)	-		MD71BH	1515
 SM 500 with Neutral Loss Protection	SM500 (3 Ph / 1 Ph, 4W)	Single Phasing Preventor + Selectable Under Voltage + Selectable Over Voltage	Selectable ON Delay (0 to 15 min) & OFF Delay 5 sec	Phase Asymmetry 10% fixed	240 VAC, 2 C/O	MG73B9	1860				
				Selectable ON Delay (0 to 15 sec) & OFF Delay 5 sec		Phase Asymmetry 10% fixed	MG73BH	1860			
				Selectable OFF Delay (0 to 15 sec) & ON Delay 5 sec		Phase Asymmetry 10% fixed	MG73BF	1860			
		SPP + UV/OV, with fixed UV (173 V) & OV (288 V)	Selectable ON (10 Sec) and OFF Delay (5 Sec)	Phase Asymmetry 20% fixed	MG73BR	1860					
		SPP + Selectable UV + Selectable OV with Neutral Loss Protection	ON Delay 5 sec and OFF Delay 5 sec, 500ms-1s for Neutral fail	94 VAC Asymmetry	415 VAC, 3 Ph 4W, 2 C/O	MAC04 D0100	1860				
 SM 501	SM501 (3 Ph, 3W)	SPP + Under Voltage (80% of ϕ)	Selectable ON Delay and OFF Delay 15 sec	Selectable Asymmetry (5% to 17%)	415 VAC, 2 C/O	MB53BM	1895				
		Single Phasing Preventor + Selectable Under Voltage + Selectable Over Voltage	Selectable ON Delay 15 sec & OFF Delay 5 sec	Phase Asymmetry 10%		MG53BH	1895				
			Selectable OFF Delay 15 sec & ON Delay 5 sec	Phase Asymmetry 10%		MG53BF	1895				
			ON Delay 5 sec and OFF Delay 5 sec	65 VAC Asymmetry		MG53BI	1785				
			ON Delay 3 min and OFF Delay 5 sec UV 85% of ϕ OV 110% of ϕ	Phase Asymmetry 10%		MG53BO	1785				
 SM 800	SM 800 (3PH/ 3W, 4W)	Single Phasing Preventor+ Selectable Under Voltage + Selectable Over Voltage + Neutral Loss (Applicable for 3P4W).	Power ON Delay (0 to 999 sec) , OFF Delay (0.1 to 999 sec) & ON delay (0.5 to 999 sec)	Voltage: 5 to 99 VAC (Default 60V) , Percentage : 2 to 50% (Default 10%)	145-500 VAC (Line Voltage), 1C/O	DMS110	1865				
				Voltage +_ 1% of set value	145-500 VAC (Line Voltage), 2C/O	DMS120	1970				
					85-300 VAC/DC (Auxiliary Supply) (P-N), 2 C/O	DMA220	2175				
 SM 600 (MMR)	SM 600 (3P, 3W)	Phase loss+ Phase Sequence +Phase Asymetry + UV + OV+3 phase interruption	Power ON delay (5s Fixed),ON delay (1-30 sec or Fixed), OFF delay (0.1 - 30 sec or Fixed)	Voltage +_ 1% of set value	500V -1000V AC 2 C/O	SMB110	8765				


Note: 3 Ph 3W - 3 Phase 3 Wire system; 3 Ph 4W - 3 Phase 4 Wire system.


Voltage Monitoring Relay Series	Type	Supply Monitoring Type	Time Delay	Asymmetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
 <p>SM175 3 Ph, 3W</p>	SM175 (3 Ph, 3W)	Phase loss + Phase Sequence Monitoring	ON Delay 500 msec & OFF Delay 100 msec	-	208 - 480 VAC, 1 C/O (Steps of 208 - 220 - 380 - 400 - 415 - 440 - 480 VAC)	MK21D5	1195
			ON Delay 500 msec & OFF Delay 100 msec	Phase Asymmetry (30% fixed)		MC21D5	1195
			ON Delay 5 sec & OFF Delay 100 msec (0 to 15s Selectable)	Phase Asymmetry (5% to 15% variable)		MA21DN	1560
	SM175 (3 Ph, 4W)	Phase Loss + Phase Sequence + Under Voltage + Over Voltage monitoring (UV: -2% to -20% of \bar{U} , OV: 2% to 20% of \bar{U})	ON Delay 5 sec and Selectable OFF Delay (0 to 15 sec)	-		MD21DF	1560
			Selectable ON Delay (0.5 to 15 sec) and OFF Delay 5 sec	Phase Asymmetry (10% fixed)		MG21DH	1745
			ON Delay 5s and Selectable OFF Delay (0 to 15 sec)			MG21DF	1745
 <p>SM175 3 Ph, 4W</p>	SM175 (3 Ph, 4W)	Phase loss+ Phase Sequence+ Under Voltage + Over Voltage (UV:-2% to -22% of \bar{U} , OV: 2% to 22% of \bar{U})	Selectable ON delay (0 to 15 Sec), Selectable OFF delay (0 to 15 sec)	Phase Asymmetry (10% fixed)	120 to 277 VAC (3P, 4W), 1 C/O	MAG03D0424	1895
					Phase loss+ Phase Sequence+ Under Voltage + Over Voltage (UV:-5% to -25% of \bar{U} / 60% of \bar{U} (Fixed), OV: 5% to 25% of \bar{U} / 110% of \bar{U} (Fixed))	240 VAC (3P, 4W), 1 C/O	MAG03D0425
	SM175 (3 Ph, 3W)	Phase loss+ Phase sequence+ Under Voltage + Over Voltage (UV:-5% to -25% / 80% of \bar{U} (Fixed), OV: 110% of \bar{U} (Fixed))	Selectable ON delay (0 to 15 sec/min), Selectable OFF delay (0 to 15 sec/min)	Phase Asymmetry (10% fixed/ 5% to 25% Selectable)	MAG03D0426	1895	
			Phase loss Monitoring	ON delay 750 msec & OFF delay 500 msec	Phase Asymmetry (30% fixed)	415 VAC, 1 C/O	MAG03D0427

Current Monitoring relay (CMR)

- Microprocessor based relay protects against Overload, Phase reverse, Phase loss, Phase unbalance faults
- Auto/ Manual reset selection
- Fail- safe protection with inbuilt CT upto 45A
- Inverse time model with underload, locked rotor protection and selectable trip class (10A, 10, 20, 30)
- Definite time model with underload and selectable start and trip time

Current Monitoring relay	Phase	Type	Current & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
 	3 Phase	Inverse Time Current Monitoring Relay	2 - 5A 1 C/O	17A422CB0	2130
			3 - 9A, 1 C/O	17A122CB0	
			8 - 24A, 1 C/O	17A222CB0	
			15 - 45A, 1 C/O	17A322CB0	
		Definite Time Current Monitoring Relay	2 - 5A 1 C/O	17B422AA0	
			3 - 9A, 1 C/O	17B122AA0	
	1 Phase	Inverse Time Current Monitoring Relay	8 - 24A, 1 C/O	17B222AA0	
			15 - 45A, 1 C/O	17B322AA0	
			Definite Type / Instant Trip	2 - 5A 1 C/O	17B422PA0
		Definite Time Current Monitoring Relay	2 - 5A 1 C/O	17C412EB0	
			3 - 9A, 1 C/O	17C112EB0	
			8 - 24A, 1 C/O	17C212EB0	
15 - 45A, 1 C/O	2 - 5A 1 C/O	17C312EB0			
	3 - 9A, 1 C/O	17D412DA0			
	8 - 24A, 1 C/O	17D112DA0			
15 - 45A, 1 C/O	17D212DA0				
15 - 45A, 1 C/O	17D312DA0				

Frequency Monitoring Relay Series 	Relay Type	Time Delay	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	Over Frequency Monitoring Relay	ON Delay and OFF Delay of 500 ms (Fixed)	110 - 240 VAC, 1 C/O	MI81BJ	2440
			220 - 440 VAC, 1 C/O	MI91BJ	2440
	Under/Over Frequency Monitoring Relay	ON Delay (Fixed) and OFF Delay Selectable	110 - 240 VAC, 1 C/O	MI81BL	2665
220 - 440 VAC, 1 C/O			MI91BL	2665	

PTC Thermistor Relay Series 	Relay Type	Description	Cat. No.	M.R.P. (₹) Per Unit
	Thermistor Relay	110 - 240 VAC, 2 C/O	MJ83BK	2070
		220 - 440 VAC, 2 C/O	MJ93BK	2090
		24 VAC/DC, 2 C/O	MJA3BK	2420
		110 - 240 VAC, 1 C/O	MJ81BK	1910
		220 - 440 VAC, 1 C/O	MJ91BK	1910

Electro Mechanical Timers [9107]



EM 1000 	Product Description	Cat. No.	M.R.P. (₹) Per Unit
	EM 1000 ON Delay Auto Reset Synchronous Timer Single Range	B□□□□□	Table-1
<p>EM 1000 B□□□□□</p> <p>Timing Ranges (SR)</p> <p>B 0.15 - 3.0 sec C 1.5 - 30 sec D 0.15 - 3.0 min E 1.5 - 30 min F 0.15 - 3.0 hrs G 1.5 - 30 hrs H 0.3 - 6.0 sec J 3.0 - 60 sec K 0.3 - 6.0 min L 3.0 - 60 min M 0.3 - 6.0 hrs N 3.0 - 60 hrs P 0.6 - 12 sec Q 6.0 - 120 sec R 0.6 - 12 min S 6.0 - 120 min T 0.6 - 12 hrs V 6 - 120 hrs</p> <p>Timing Ranges (MR)</p> <p>X 0.15 sec - 3.0 hrs Y 0.3 sec - 6.0 hrs Z 0.6 sec - 12.0 hrs</p> <p>Voltage</p> <p>3 110 VAC 50 Hz 4 240 VAC 50 Hz C 110 VAC 60 Hz D 240 VAC 60 Hz</p> <p>Delay</p> <p>1 Standard ON delay 2 With 'NO VOLT'</p> <p>Mounting</p> <p>B Base Mounting F Flush (door) Mtg.</p> <p>Contact</p> <p>1 1 Inst + 1 Del C/O 2 1 Inst + 2 Del C/O</p> <p>*Add to basic Price. Contact : 240 VAC 6A (Resistive)</p>			
		*290	
			*280

Table - 1

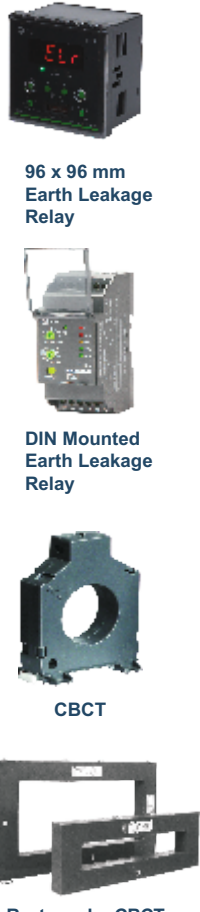
Single Range (SR) (In sec/min/hrs)	M.R.P. (₹) Per Unit for Single Range (SR) (In sec/min/hrs)	Multi Range (MR) with 5 Ranges	M.R.P. (₹) Per Unit
0.15 - 3	4665	0.15 sec - 3 hrs	5535
0.3 - 6		0.3 sec - 6 hrs	
0.6 - 12		0.6 sec - 12 hrs	
1.5 - 30			
3.0 - 60			
6.0 - 120			

Hour Meter & Counter [9029]

Hour Meters 	Product Description	Cat. No.	M.R.P. (₹) Per Unit
	HM36, 85 - 265 VAC Flush Mounting	LA25F1	780
	HM 36, 10 - 80 VDC Flush Mounting	LD17F1	1185
	HM36, 92 - 264 / 270 - 460 VAC Base - DIN Mounting	30A6B1	855
	HM36, 10 - 80 VDC Base/DIN Mounting	30D1B1	1185
	Digital Hour Meter/Digital Counter (Resettable)	Z□□FB□	1420

Hour Meter / Counter		Z □ □ FB □	
Voltage		Bezel	
H 10 - 80 VDC	1 Hour Meter	A Round	
7 85 - 265 VAC	2 Counter	B 24 x 48	
J 12 - 48 VAC/DC		C Screw Mount	

Earth Leakage Relay [9032]

Earth Leakage Relays 	Current Range	Type	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
96 x 96 mm Earth Leakage Relay DIN Mounted Earth Leakage Relay CBCT Rectangular CBCT	30mA - 30A	Panel mounted (96 x 96 mm) Earth Leakage Relay	110 - 240 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault)	17K716QF4N	3840
			110 - 240 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault) with RS 485	17K716QF4M	5515
			240 - 415 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault)	17K726QF4N	3840
			240 - 415 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault) with RS 485	17K726QF4M	5515
		DIN mounted Earth Leakage Relay	110 - 240 VAC, 110 VDC, Manual reset	17G715GF2	3505
			220 - 415 VAC, 220 VDC, Manual reset	17G745GF2	
			15 VDC, Manual reset	17G755GF2	
			110 - 240 VAC, 110 VDC, Auto reset	17G715KF2	
			220 - 415 VAC, 220 VDC, Auto reset	17G745KF2	
			15 VDC, Auto reset	17G755KF2	
		CBCT (moulded case) for Type A & AC Current	38 mm ID	17H7NNHN3	1205
			57 mm ID	17H7NNIN3	1630
			70 mm ID	17H7NNQN3	1850
			92 mm ID	17H7NNJN3	2025
			120 mm ID	17H7NNLN3	2110
			210 mm ID	17H7NNKN3	3980
		CBCT (moulded case) for Type AC Current	38 mm ID	17H7NNRN3	900
			57 mm ID	17H7NNVN3	1010
70 mm ID	17H7NNSN3		1070		
92 mm ID	17H7NNTN3		1430		
120 mm ID	17H7NNUN3		1660		
Rectangular CBCT (moulded case) for Type AC Current	300 x 50 mm ID	17H9NNWN0	7950		
	350 x 150 mm ID	17H9NNXN0	9670		

CBCT for Type AC : For applications with sinusoidal alternating current from 30mA to 30 A.

CBCT for Type A and AC : For applications with sinusoidal alternating current (from 30mA to 30A) & pulsating DC current (from 30mA to 3A).

Please contact nearest branch office for requirements of higher dimension CBCTs.

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