

# Logic Control IEC Electronic Timers Product Overview

## Section 10



### Multivoltage Electronic Timers

Voltage	Multivoltage									
Types	NMTCV	NMTCIV	NMETV	NMTDV	NMRDV	NMICV	NMIFV	NMIVV	NMMFV	
Selection/Pricing Page	10-15	10-15	10-15	10-16	10-15	10-15	10-16	10-16	10-16	10-16
Technical Data Page	10-18	10-19	10-20	10-21	10-21	10-19	10-22	10-22	10-23	
<b>Functions</b>										
Delayed ON	•									•
ON delay with auxiliary contact										•
ON delay + instantaneous contact		•								
OFF delay				•	•					
OFF delay with auxiliary contact			•							•
ON + OFF delay with auxiliary contact										•
Impulse ON						•				•
Impulse ON with auxiliary contact										•
OFF pulse with auxiliary contact										•
Symmetric intermittence							•			
Asymmetric intermittence								•		
Star-delta starter			•							
Multifunction										•
<b>Features</b>										
Multirange of time	•	•		•		•	•	•	•	•
Time setting range	from	0.06 s	0.06 s	6 s	0.06 s	0.5 s	0.06 s	0.06 s	0.06 s	0.6 s
	to	100 hrs	100 hrs	60 s	100 hrs	600 s	100 hrs	100 hrs	100 hrs	100 hrs
Relay output		1	1 del +	1	1	1	1	1	1	
(Number of changeover contacts)		2	1 inst			2	2	2	2	2



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#### Delayed ON (See page 10-18 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Direct 24-240V AC/DC	1 selectable NO-NC	0.06 sec. - 100 hrs	NMTCV
Direct 24-240V AC/DC	2 selectable NO-NC	0.06 sec. - 100 hrs	NMTCV2
With transformer	1 selectable NO-NC	0.06 sec. - 100 hrs	NMTCVT**



Delayed ON

#### Delayed ON with Instantaneous Contact (See page 10-19 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number
Direct 24-240V AC/DC	1 timed contact + 1 instant contact	0.06 sec. - 100 hrs	NMTCIV



Delayed ON w/  
Instantaneous Contact

#### Impulse On (See page 10-19 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Direct 24-240V AC/DC	1 selectable NO-NC	0.06 sec. - 100 hrs	NMICV

#### Star-Delta Starter (See page 10-20 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Direct 24-240V AC/DC	2 timed	6 - 60 sec.	NMETV
With transformer	2 timed	6 - 60 sec.	NMETVT**



Delayed OFF

#### Delayed OFF (See page 10-21 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Direct 24-240V AC/DC	1 selectable NO-NC	0.5 - 6 sec.	NMRDV-6
Direct 24-240V AC/DC	1 selectable NO-NC	5 - 60 sec.	NMRDV-60
Direct 24-240V AC/DC	1 selectable NO-NC	50 - 600 sec.	NMRDV-600
Direct 24-240V AC/DC	2 selectable NO-NC	0.5 - 6 sec.	NMRDV2-6
Direct 24-240V AC/DC	2 selectable NO-NC	5 - 60 sec.	NMRDV2-60
Direct 24-240V AC/DC	2 selectable NO-NC	50 - 600 sec.	NMRDV2-600
With transformer (up to 440V)	1 selectable NO-NC	0.5 - 6 sec.	NMRDVT-6**
With transformer (up to 440V)	1 selectable NO-NC	5 - 60 sec.	NMRDVT-60**
With transformer (up to 440V)	1 selectable NO-NC	50 - 600 sec.	NMRDVT-600**

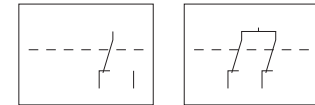
<sup>1</sup>To complete the product number, replace the symbol \*\* with the code corresponding to the voltage.

#### \*\*Coil Voltage

AC (50/60 Hz)	Coil Digits
110-125	AJ
200-240	AM
380-400	AU

#### Technical Data

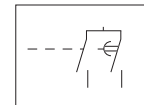
Type	See Page
NMTCV	10-18
NMTCIV	10-19
NMICV	10-19
NMETV	10-20
NMRDV	10-21



1NO-1NC

2NO-2NC

Contact Diagrams



2 Timed

Contact Diagrams



# Logic Control

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#### Delayed OFF Through Contact (See page 10-21 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Direct 24-240V AC/DC	1 selectable NO-NC	0.06 sec. - 100 hrs.	NMTDV

#### Symmetric Intermittence (See page 10-22 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Direct 24-240V AC/DC	1 selectable NO-NC	0.06 sec. - 100 hrs.	NMIFV

#### Asymmetric Intermittence (started by Connection or Pause-Choice) (See page 10-23 for technical data)

Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Direct 24-240V AC/DC	1 selectable NO-NC	0.06 sec. - 100 hrs.	NMIVV

#### Multifunction and Multirange-Large 45 mm (See page 10-23 for technical data)

The functions of this multifunction and multirange electronic relay are selected by 3 dip-switches located on the front of the relay. It has eight functions:

- Delayed ON timer
- Delayed ON through contact timer
- Delayed OFF through contact timer
- Delayed ON and OFF through contact timer
- Impulse ON timer
- Impulse ON through contact timer
- Impulse OFF through contact timer
- Impulse ON and OFF through contact timer

If the relay loses current during timing, it disconnects and is ready for a new cycle. It has four timing ranges: 0.6-6s, 6-60s, 0.6-6min, 6-60min. Times are set by front potentiometer controlling an ASIC specially designed for this group of relays. This allows for excellent precision and repeatability features.

Type	Input Voltage	Contact Configuration	Time Range	Product Number <sup>1</sup>
Multifunction	Direct 24-240V AC/DC	1 selectable NO-NC	0.6 sec. - 100 hrs.	NMMFV

<sup>1</sup>To complete the product number, replace the symbol \*\* with the code corresponding to the voltage.

#### \*\*Coil Voltage

AC (50/60 Hz)	Coil Digits
110-125	AJ
200-240	AM
380-400	AU

#### Technical Data

Type	See Page
NMTDV	10-21
NMIFV	10-22
NMIVV	10-22
NMMFV	10-23



Delayed OFF Through Contact



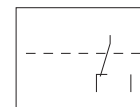
Symmetric Intermittence



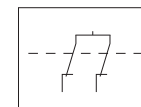
Multifunction



Multirange-Large 45 mm



1NO-1NC



2NO-2NC

Contact Diagrams

