



Series NMV Multivoltage timers 22.5mm module

- Timers: 22,5mm multivoltage 24-240V AC/DC relay
- Functions: delayed ON, OFF, star-delta, intermittence and multifunction
- 2 LED indication:
Green flashing during timer function and stable after relay energized.
Red when output contact is ON

Standards

VDE 0106	CSA C 22.2 Nr.14	UNE 20-119
VDE 0110	UL 94	IEC/EN 60947-5-1
EN 50002	UL 508	IEC/EN 61812-1
EN 50042	IEC 255.5	CE
		cUL

Multivoltage electronic timers - 22.5mm module

		Supply voltage	Time range	Available contacts	Cat. no.	Ref. no.	Pack.
	Delayed ON relay	Direct					
		24-240V AC/DC	0.06 sec - 100 h	2 changeover	NMTCV 2	124901	1
		Technical data: see G.6					
	Star-delta starter relay	Direct	1 - 10 sec.	1 changeover	NMETV	124908	1
		24-240V AC/DC	6 - 60 sec.				
		With transformer ⁽¹⁾	1 - 10 sec.	1 changeover	NMETV t AU ⁽²⁾	124911	1
		Technical data: see G.7					
	Delayed OFF timer	Direct	0.5 - 6 sec.	2 changeover	NMRDV 2-6	124915	1
		24-240V AC/DC	5 - 60 sec.	2 changeover	NMRDV 2-60	124916	1
		24-240V AC/DC	50 - 600 sec.	2 changeover	NMRDV 2-600	124917	1
		Technical data: see G.7					
	Asymmetric intermittence, started by connection or pause (choice)	Direct	0.06 sec - 100 h	1 changeover	NMIVV	124929	1
		24-240V AC/DC					
		Technical data: see G.8					
	Multifunction	- 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					
		Module 22.5mm					
		Direct	0.6 sec - 100 h	1 changeover	NMMFV	124930	1
		24-240V AC/DC					
		Technical data: see G.9					

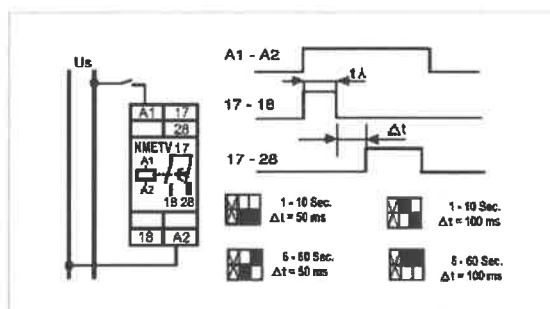
Dimensions • pg. G.20

(1) AU = coil 380V 50/60 Hz
(2) Transformer inside the timer housing

NMETV... Star-delta starter timer**Function**

Electronic relay timed in steps whose purpose is to control star-delta starting. When supply voltage is applied to the **A1-A2** terminals, the star contact (17-18) closes for an adjustable time between up to 100 h (selectable). When this time is up, it opens, there is a pause and then the delta contact connects (17-18). The standard pause time is about 100ms.

Times are set by front potentiometer controlling an ASIC specially designed for this group of relays. This allows for excellent precision and repeatability features.

**Technical characteristics**

	NMETV	NMETV t
Nr. of changeover contacts	2	
Output contacts:		
Rated insulation voltage U_i	AC (V)	250
	DC (V)	250
Thermal current I_{th}	(A)	6
Utilisation AC-15		
Rated voltage U_e	(V)	125/230
Rated current I_e	(A)	2.5/1.3
Utilisation DC-13		
Rated voltage U_e	(V)	110/230
Rated current I_e	(A)	0.2/0.1
Supply voltages (U_n)		
AC/DC (direct)	(V)	24-240
AC(with transformer)	(V)	110-125 200-240 380-440
Frequency	(Hz)	50/60
Supply voltage tolerance	(%)	+10 / -20
Consumption	(mA)	50 (at 24V)
	(mA)	12 (at 240V)
	(VA)	-
Test voltage	(kV)	4
(between input, output and ground)		
Switch ON response time	(ms)	100
Reset time between 2 cycles ⁽¹⁾	(ms)	100
Repeat accuracy with 0.85 - 1.1 U_n (%)	2	

Ambient conditions

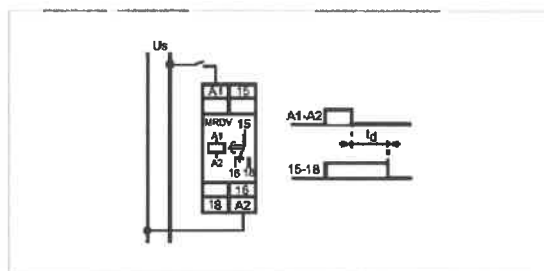
Storage temperature	-40°C to +80°C
Operating temperature	-25°C to +60°C
Relative humidity	95% (without condensation)
Max. operating altitude	2,000 m
Degree of protection	IP40; terminals IP20
Operating positions	Any position

Conformity to standards

VDE 0106	CSA C 22.2 No 14
VDE 0110	IEC/EN 60255-5
EN 50001 (NMETV)	UL 94
EN 50002	UL 508
EN 50042 (NMRDV)	UNE 20-119 (NMRDV)
IEC/EN 60947-5-1 (NMRDV)	CE

NMRDV... Delayed OFF timer**Function**

Electronic relay whose output contact instantly connects when supply voltage is applied to terminals **A1-A2**. It disconnects with an adjustable delay as from the moment the relay loses supply voltage. There are several types depending on the range of timers.

**Technical characteristics**

			NMRDV2
Nr of changeover contacts			2
Output contacts:			
Rated insulation	AC	(V)	250
voltage U_i	DC	(V)	250
Thermal current I_{th}		(A)	6
Utilisation AC-15			
Rated voltage U_e		(V)	125/230
Rated current I_e		(A)	2.5/1.3
Utilisation DC-13			
Rated voltage U_e		(V)	110/230
Rated current I_e		(A)	0.2/0.1
Supply voltages (U_n)			
AC/DC (direct)		(V)	24-240
AC(with transformer)		(V)	-
			200-240
			380-440
Frequency		(Hz)	50/60
Supply voltage tolerance		(%)	+10 / -20
Consumption		(mA)	1.5 (at 24V)
		(mA)	5 (at 240V)
		(VA)	-
Test voltage		(kV)	4
(between input, output and ground)			
Switch ON response time		(ms)	250 ⁽²⁾
Switch OFF response time			0.5 - 600
Reset time between 2 cycles ⁽¹⁾		(ms)	250
Repeat accuracy with 0.85 - 1.1 U_n (%)			5

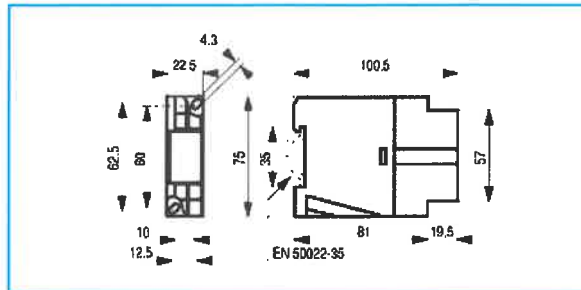
- (1) Reset time: Time that must go by from the relay ends an operation until it is able to initiate the next one without error.
 (2) For 24V c.c. = 300ms

Remark

NMETV relays have a green LED that lights up when the relays is energised (flashing during the timing) and a red LED that lights up when the star contact 17-18 is closed.

Dimensional drawings

Series NMV



Series D

