DT DTMSMM1 Multi-function Timer

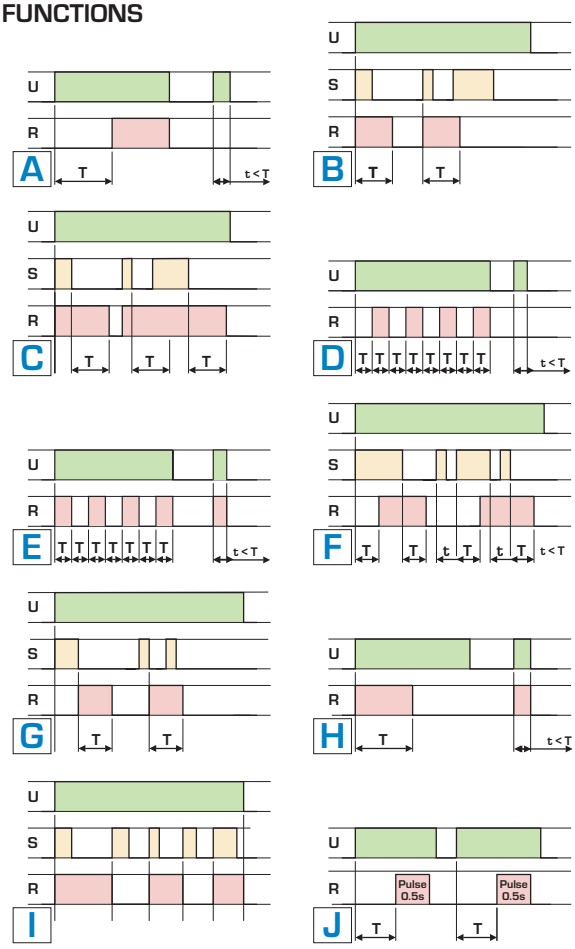
- COMPACT SIZE - 1 MODULE
- 10 FUNCTIONS SELECTABLE
- TIME RANGE 0.1sec - 10days
- UNIVERSAL SUPPLY 24-110VDC/24-240VAC
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for electric appliances.

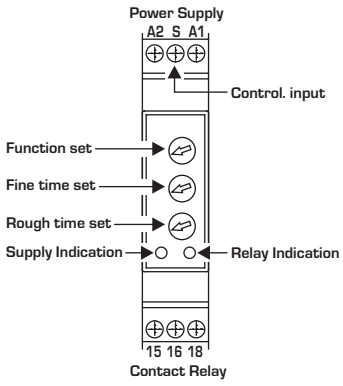
TECHNICAL DATA

	UNIT	DTMSMM1
INPUT		
Supply voltage DC	VDC	24 - 110
Supply voltage AC	VAC	24 - 240
Frequency range	Hz	47 - 63
Power consumption (max. AC)	VA	8.5 (2.6W)
Supply indication	-	Green LED **U**
Impulse length (min)	ms	25
OUTPUT RELAY		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1×10^5 ops 1×10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Changeover contacts	-	1 Au+AgCdO
Output Indication	-	Red LED **R**
GENERAL		
Time Range rotary switch	Time	0.1s–10 days
Time Deviation	%	5
Repeat Accuracy	%	0.2 Set value
Rise time	ms	150
Temperature work	°C	-10/+50
Storage temperature	°C	-30/+70
Electical Strength	kV	4
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	65
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	EN61812-1/ EN50081-1 EN61010-1/EN50082-2

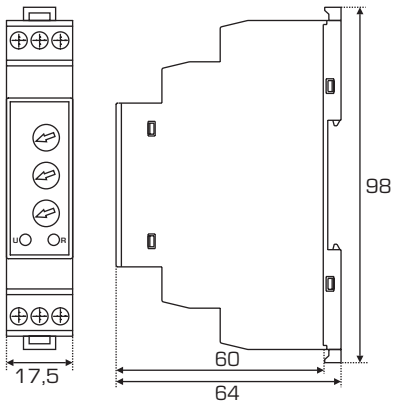
FUNCTIONS



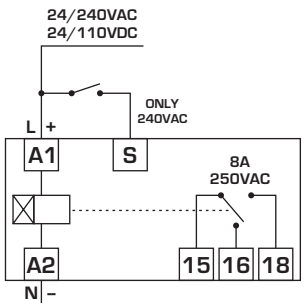
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



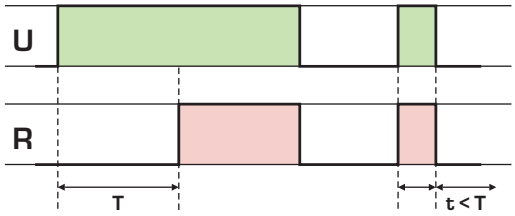
- COMPACT SIZE - 1 MODULE
- TIME RANGE 0.1sec - 10days
- UNIVERSAL SUPPLY 24-110VDC/24-240VAC
- ENERGIZING AT THE END OF TIME DELAY
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for electric appliances.

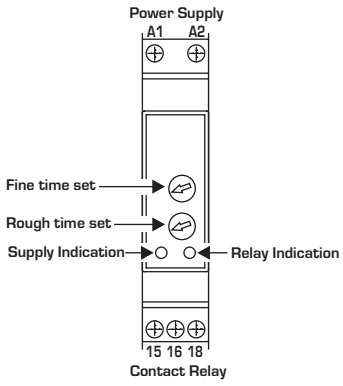
TECHNICAL DATA

	UNIT	DTMSLD1
INPUT		
Supply voltage DC	VDC	24 - 110
Supply voltage AC	VAC	24 - 240
Frequency range	Hz	47 - 63
Power consumption (max. AC)	VA	8.5 (2.6W)
Supply indication	-	Green LED **U**
OUTPUT RELAY		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Changeover contacts	-	1 Au+AgCdO
Output Indication	-	Red LED **R**
GENERAL		
Time Range rotary switch	Time	0.1s–10 days
Time Deviation	%	5
Repeat Accuracy	%	0.2 Set value
Rise time	ms	150
Temperature work	°C	-10/+50
Storage temperature	°C	-30/+70
Electical Strength	kV	4
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	60
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	EN61812-1/ EN50081-1 EN61010-1/EN50082-2

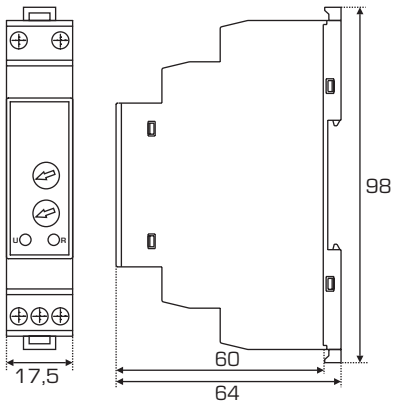
FUNCTIONS



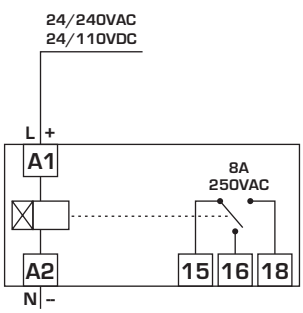
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



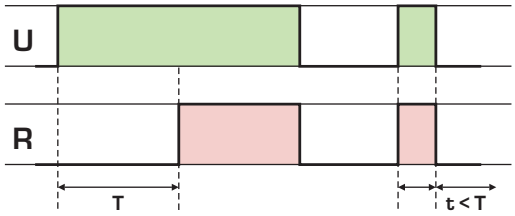
- COMPACT SIZE - 1 MODULE
- FIXED TIME 1sec.
- UNIVERSAL SUPPLY 24-110VDC/24-240VAC
- ENERGIZING AT THE END OF TIME DELAY
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for electric appliances

TECHNICAL DATA

	UNIT	DTMSHD1
INPUT		
Supply voltage DC	VDC	24 - 110
Supply voltage AC	VAC	24 - 240
Frequency range	Hz	47 - 63
Power consumption (max. AC)	VA	8.5 (2.6W)
Supply indication	-	Green LED **U**
OUTPUT RELAY		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1×10^5 ops 1×10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Changeover contacts	-	1 Au+AgCdO
Output Indication	-	Red LED **R**
GENERAL		
Fixed Time	Time	1 sec
Min break time	ms	10
Temperature work	°C	-10/+50
Storage temperature	°C	-30/+70
Electical Strength	kV	4
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	45
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	CE

FUNCTIONS



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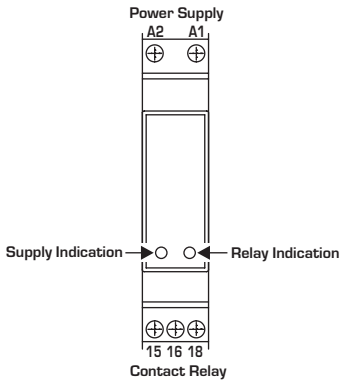
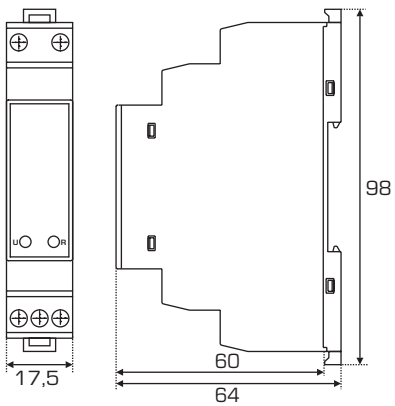
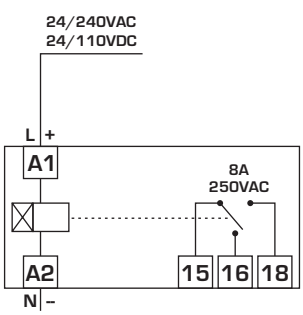


DIMENSIONS (mm)



WIRING DIAGRAM



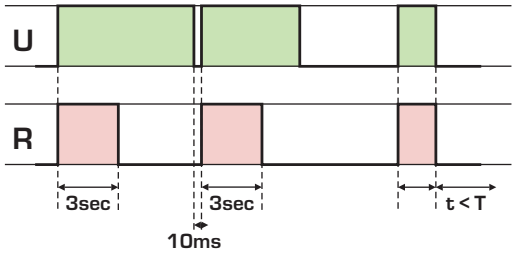
- COMPACT SIZE - 1 MODULE
- FIXED TIME 3sec.
- UNIVERSAL SUPPLY 24-110VDC/24-240VAC
- DE-ENERGIZING AT THE END OF TIME DELAY
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for electric appliances.

TECHNICAL DATA

	UNIT	DTMSOD1
INPUT		
Supply voltage DC	VDC	24 - 110
Supply voltage AC	VAC	24 - 240
Frequency range	Hz	47 - 63
Power consumption (max. AC)	VA	8.5 (2.6W)
Supply indication	-	Green LED **U**
OUTPUT RELAY		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1×10^5 ops 1×10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Changeover contacts	-	1 Au+AgCdO
Output Indication	-	Red LED **R**
GENERAL		
Fixed Time	Time	3 sec
Min break time	ms	10
Temperature work	°C	-10/+50
Storage temperature	°C	-30/+70
Electical Strength	kV	4
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	45
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	CE

FUNCTIONS



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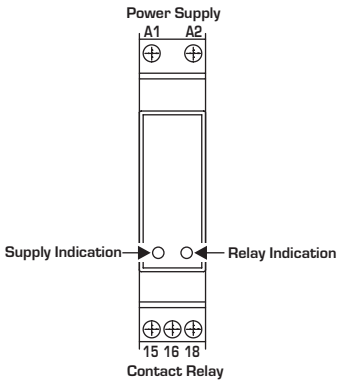
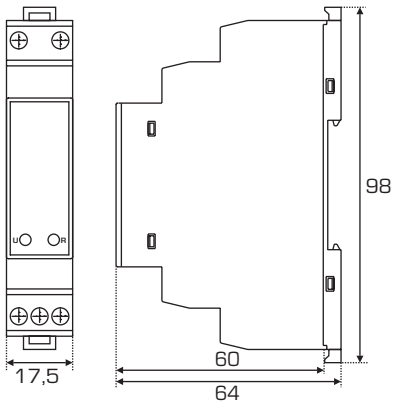
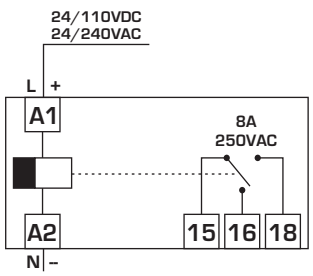


DIMENSIONS (mm)



WIRING DIAGRAM



DT DTM...VCD2/UCD2/OCD2 Star/Delta Timer

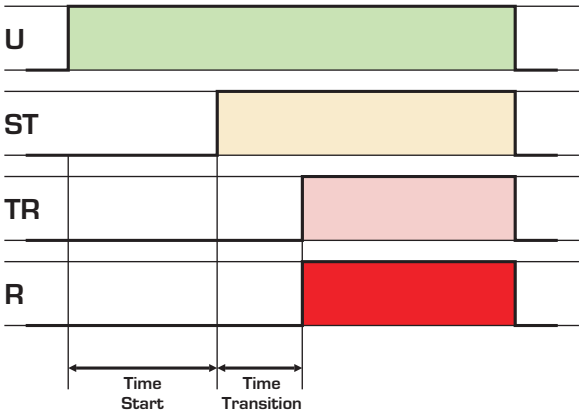
- COMPACT SIZE - 1 MODULE
- TIME RANGE ST: 6-60sec. TR: 20-300ms.
- ENERGIZING AT THE END OF TIME DELAY
- 2 RELAY WITH 1 CHANGE-OVER CONTACT
- LED INDICATOR FOR RELAY (TRANSITION)
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for electrical motors starters.

TECHNICAL DATA

	UNIT	DTMVCD2	DTMUCD2	DTMOCD2
INPUT				
Supply voltage DC	VAC/DC	24	24	/
Supply voltage AC	VAC	115	240	415
Frequency range	Hz	47 - 63		
Power consumption (max. AC)	VA	3.9 (0.8W)		
Supply indication	-	Green LED **U**		
OUTPUT RELAY (x2)				
Max. power rating relay	VA	2.000 Ac1		
Rated current	A	8		
Rated operational voltage	VAC	250		
Breaking power	W	240		
Contact life	Elettr. Mecc.	1×10^5 ops 1×10^7 ops		
Inrush Current	A	10A < 3s		
Min. Switching Load	VDC	5 (10mA)		
Changeover contacts	-	1 Au+AgCdO		
Output Indication	-	Red LED **R**		
GENERAL				
Time Delay (START)	sec	6 - 60		
Time Delay (TRANSITION)	ms	20 - 300		
Rise time	ms	100		
Temperature work	°C	-10/+50		
Storage temperature	°C	-30/+70		
Electical Strength	kV	4		
Protection degree	IP	40		
Relative Humidity	RH%	95		
Weight	g	65		
Dimensions	mm	98 x 17.5 x 64		
Conforms to	-	CE		

FUNCTIONS



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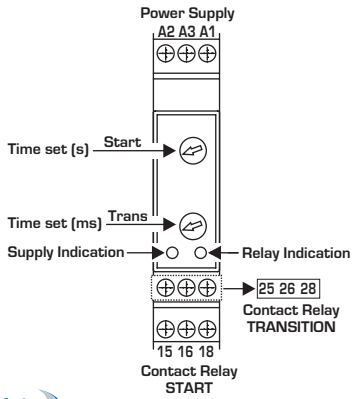
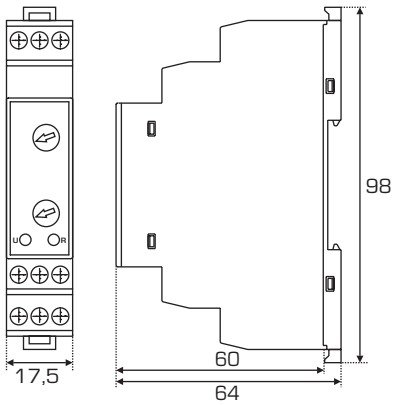
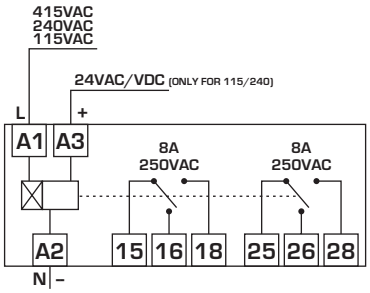


DIMENSIONS (mm)



WIRING DIAGRAM



VL VLMCII2 Voltage Relay

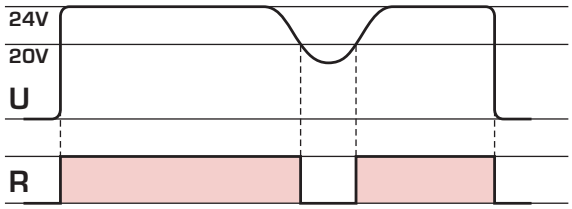
- COMPACT SIZE - 1 MODULE
- ENERGIZING IMMEDIATLY
- DE-ENERGIZING WHEN THE SUPPLY VOLTAGE DROPS BELOW 20V
- 1 RED LED INDICATOR FOR THE 2 RELAY
- 2 RELAY 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for electric appliances.

TECHNICAL DATA

	UNIT	VLMCII2
INPUT		
Supply voltage DC	VAC	24
Power consumption (max. DC)	W	0.3
Supply indication	-	Green LED **U**
OUTPUT RELAY (x2)		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1×10^5 ops 1×10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Temperature work	-	1 Au+AgCdO
Output Indication	-	Red LED **R**
GENERAL		
Temperature work	°C	-10/+50
Storage temperature	°C	-30/+70
Electical Strength	kV	2
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	65
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	CE

FUNCTIONS



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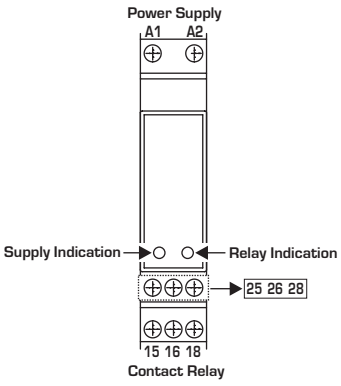
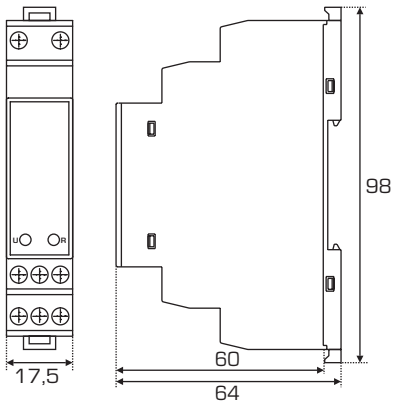
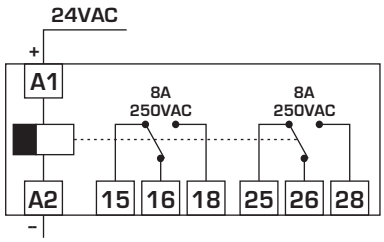


DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

VL VL...MFND1/TGND1 Voltage Relay

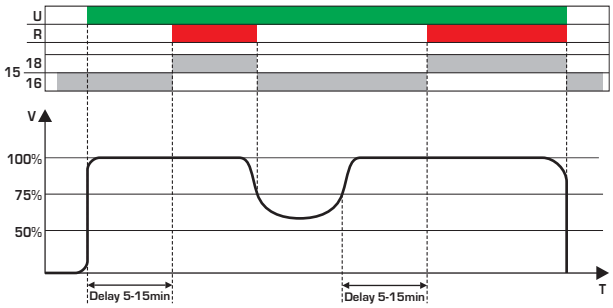
- COMPACT SIZE - 1 MODULE
- ENERGIZING AT THE END OF TIME DELAY
- DE-ENERGIZING WHEN THE SUPPLY VOLTAGE DROPS BELOW 75%
- TIME RANGE 5 - 15min.
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for electric appliances.

TECHNICAL DATA

	UNIT	VLMFND1	VLTGND1
INPUT			
Supply voltage DC	VAC	230	3 x 400
Power consumption (max. AC)	VA	6,2 (1,5W)	5,5 (1,3W)
Supply indication	-	Green LED **U**	
OUTPUT RELAY (x2)			
Max. power rating relay	VA	2.000 Ac1	
Rated current	A	8	
Rated operational voltage	VAC	250	
Breaking power	W	240	
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops	
Inrush Current	A	10A < 3s	
Min. Switching Load	VDC	5 (10mA)	
Temperature work	-	1 Au+AgCdO	
Output Indication	-	Red LED **R**	
GENERAL			
Time Range	min	5 - 15 (+-10%)	
Temperature work	°C	-10/+50	
Storage temperature	°C	-30/+70	
Electical Strength	kV	4	
Protection degree	IP	40	
Relative Humidity	RH%	95	
Weight	g	55	
Dimensions	mm	98 x 17.5 x 64	
Conforms to	-	CE	

FUNCTIONS



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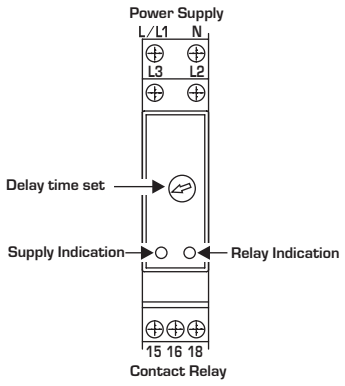
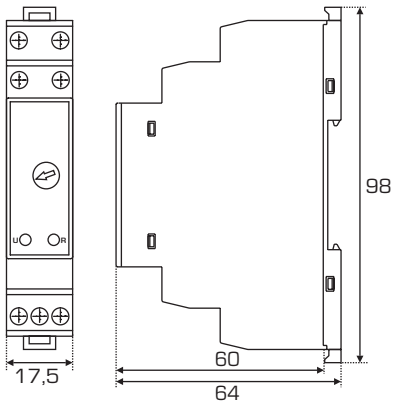
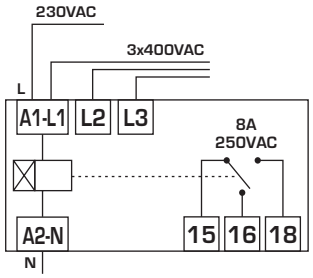


DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

FS FSTKII1S Phase Sequence Relay

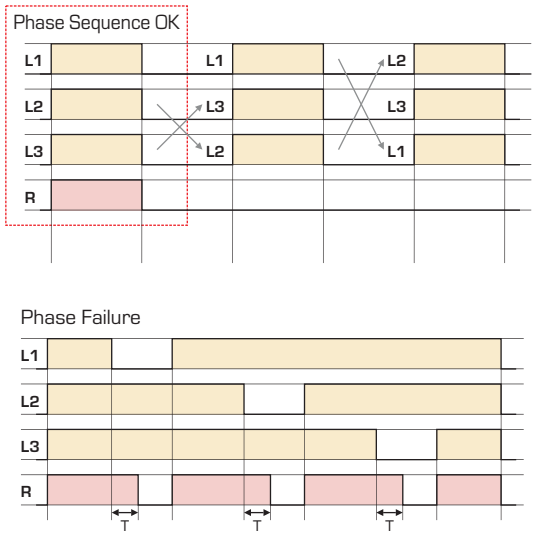
- COMPACT SIZE - 1 MODULE
- PHASE SEQUENCE/ROTATION CONTROL
- PHASE FAILURE/LOSS CONTROL
- UNIVERSAL THREE PHASE SUPPLY 3x200 - 450VAC
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for equipments, system or machines for which the phase sequence must be correct to operate.

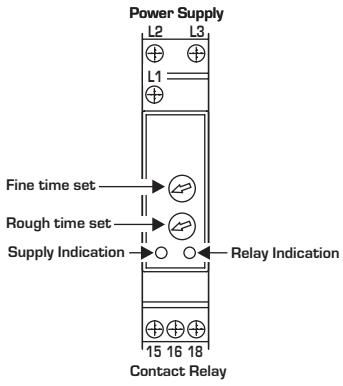
TECHNICAL DATA

	UNIT	FSTKII1S
INPUT		
Supply voltage AC	VAC	3 x 200 - 450
Frequency range	Hz	47 - 63
Power consumption (max. AC)	VA W	9 [L1/L2] 1.2 [L3] 1,9 Total
OUTPUT RELAY		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Changeover contacts	-	1 Au+AgCdO
Delay Time	ms	100 **T**
Output Indication	-	Red LED **R**
GENERAL		
Temperature work	°C	-10/+50
Storage temperature	°C	-30/+70
Electical Strength	kV	4
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	60
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	CE

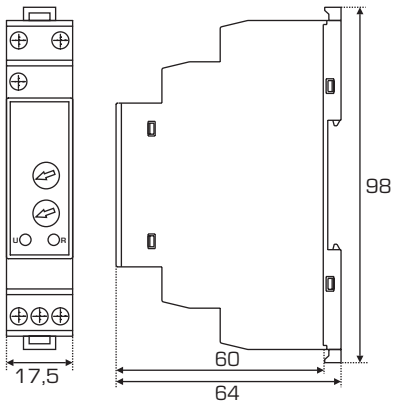
FUNCTIONS



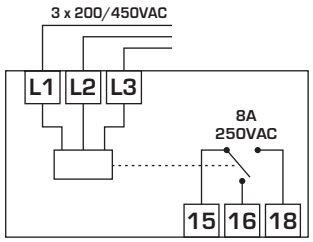
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

MV MVTGBD1...S/N Under/Over Relay

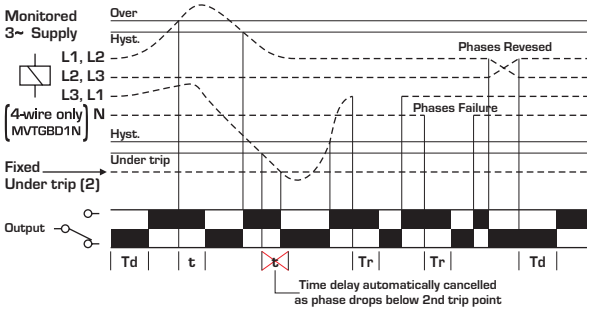
- COMPACT SIZE - 1 MODULE
- MONITOR OWN SUPPLY AND DETECTS IF ONE OR MORE PHASES EXCEED THE SET UNDER OR OVER VOLTAGE TRIP LEVELS
- MEASURES PHASE TO PHASE VOLTAGE
- ADJUSTAMENT FOR UNDER AND OVER VOLTAGE TRIP LEVEL
- ADJUSTAMENT FOR TIME DELAY (FROM UNDER OR OVER VOLTAGE CONDITION)
- NEUTRAL LOSS (only MVTGBD1N)
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for control the Under/Over Voltage plus time delay, Phase Failure and Phase Sequence.

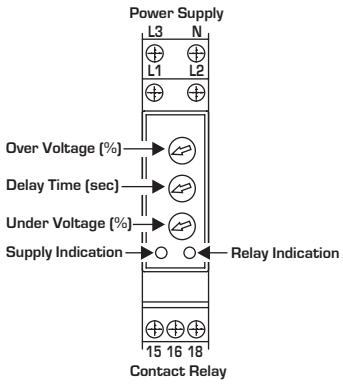
TECHNICAL DATA

	UNIT	MVTGBD1S	MVTGBD1N
INPUT			
Supply voltage AC	VAC	3 x 400	3 x 400+N
Frequency range	Hz	47 - 63	
Trip Levels	Under Over	75 - 95% of **U** 105 - 125% of **U**	
Range operating voltage	VAC	Un.165-293_Ov.295-500	
Power consumption (max. AC)	VA	15 (2,2W)	
Supply indication	-	Green LED **U**	
OUTPUT RELAY			
Max. power rating relay	VA	2.000 Ac1	
Rated current	A	8	
Rated operational voltage	VAC	250	
Breaking power	W	240	
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops	
Inrush Current	A	10A < 3s	
Min. Switching Load	VDC	5 (10mA)	
Changeover contacts	-	1 Au+AgCdO	
Output Indication	-	Red LED **R**	
GENERAL			
Hysteresis (factory set)	%	+- 2 of trip level	
Response Time	ms	100	
Time Range	sec	0,2 - 10 (**t**)	
Delay from phase/neutral Failure	ms	100 (**tr**)	
Power on delay	sec	1 (**Td**)	
Temperature work	°C	- 10 / +50	
Electical Strength	kV	4	
Protection degree	IP	40	
Relative Humidity	RH%	95	
Weight	g	65	
Dimensions	mm	98 x 17.5 x 64	
Conforms to	-	CE	

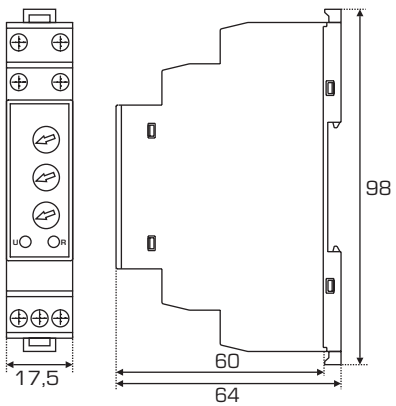
FUNCTIONS



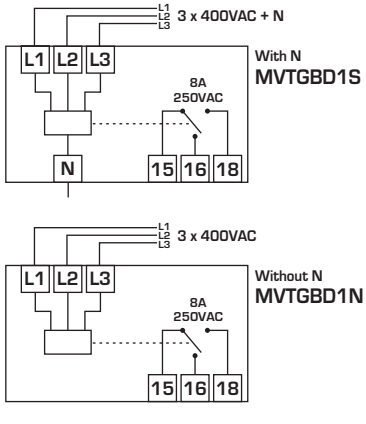
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

MV MV...MFBD1/TGBD1 Under/Over Relay

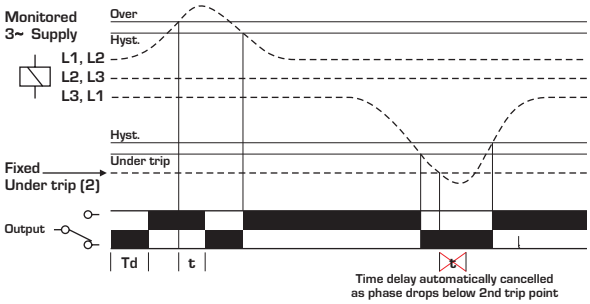
- COMPACT SIZE - 1 MODULE
- MONITOR OWN SUPPLY AND DETECTS IF ONE OR MORE PHASES EXCEED THE SET UNDER OR OVER VOLTAGE TRIP LEVELS
- MEASURES PHASE TO PHASE VOLTAGE
- ADJUSTAMENT FOR UNDER AND OVER VOLTAGE TRIP LEVEL
- ADJUSTAMENT FOR TIME DELAY (FROM UNDER OR OVER VOLTAGE CONDITION)
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for control the Under/Over Voltage plus time delay.

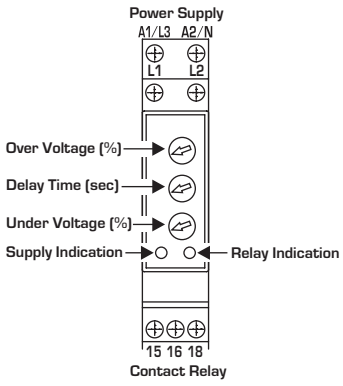
TECHNICAL DATA

	UNIT	MVMFBD1	MVTGBD1
INPUT			
Supply voltage AC	VAC	230	3 x 400
Frequency range	Hz	47 - 63	
Trip Levels	Under Over	75 - 95% of **U** 105 - 125% of **U**	
Range operating voltage	VAC	Un.165-293_Ov.295-500	
Power consumption (max. AC)	VA	13 (1,5W)	15 (2,2W)
Supply indication	-	Green LED **U**	
OUTPUT RELAY			
Max. power rating relay	VA	2.000 Ac1	
Rated current	A	8	
Rated operational voltage	VAC	250	
Breaking power	W	240	
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops	
Inrush Current	A	10A < 3s	
Min. Switching Load	VDC	5 (10mA)	
Changeover contacts	-	1 Au+AgCdO	
Output Indication	-	Red LED **R**	
GENERAL			
Hysteresis (factory set)	%	+- 2 of trip level	
Response Time	ms	100	
Time Range	sec	0,2 - 10 (**t**)	
Power on delay	sec	1 (**Td**)	
Temperature work	°C	- 10 / +50	
Electical Strength	kV	4	
Protection degree	IP	40	
Relative Humidity	RH%	95	
Weight	g	60	
Dimensions	mm	98 x 17.5 x 64	
Conforms to	-	CE	

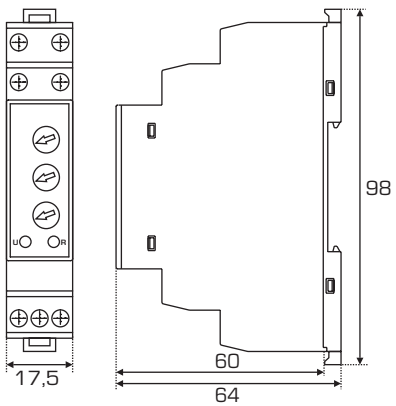
FUNCTIONS



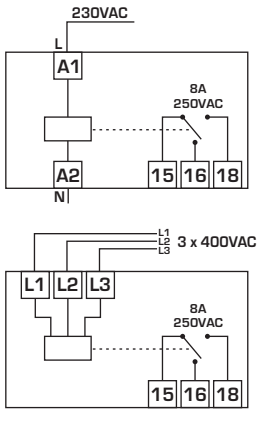
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

MV MV..MFBD1L/TGBD1L Under Relay

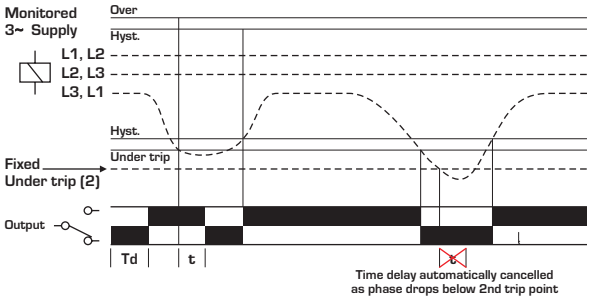
- COMPACT SIZE - 1 MODULE
- MONITOR OWN SUPPLY AND DETECTS IF ONE OR MORE PHASES EXCEED THE SET UNDER VOLTAGE TRIP LEVELS
- MEASURES PHASE TO PHASE VOLTAGE
- ADJUSTAMENT FOR UNDER VOLTAGE TRIP LEVEL
- ADJUSTAMENT FOR TIME DELAY (FROM UNDER VOLTAGE CONDITION)
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for control the Under Voltage plus time delay

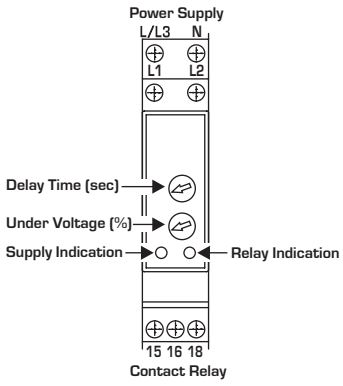
TECHNICAL DATA

	UNIT	MVMFBD1L	MVTGBD1L
INPUT			
Supply voltage AC	VAC	230	3 x 400
Frequency range	Hz	47 - 63	
Trip Levels	Under	75 - 95% of **U**	
Range operating voltage	VAC	Un.165-265_Ov.295-460	
Power consumption (max. AC)	VA	13 (1,5W)	15 (2,2W)
Supply indication	-	Green LED **U**	
OUTPUT RELAY			
Max. power rating relay	VA	2.000 Ac1	
Rated current	A	8	
Rated operational voltage	VAC	250	
Breaking power	W	240	
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops	
Inrush Current	A	10A < 3s	
Min. Switching Load	VDC	5 (10mA)	
Changeover contacts	-	1 Au+AgCdO	
Output Indication	-	Red LED **R**	
GENERAL			
Hysteresis (factory set)	%	+- 2 of trip level	
Response Time	ms	100	
Time Range	sec	0,2 - 10 (**t**)	
Power on delay	sec	1 (**Td**)	
Temperature work	°C	- 10 / +50	
Electical Strength	kV	4	
Protection degree	IP	40	
Relative Humidity	RH%	95	
Weight	g	55	
Dimensions	mm	98 x 17.5 x 64	
Conforms to	-	CE	

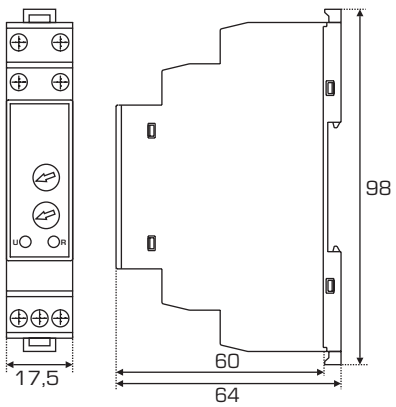
FUNCTIONS



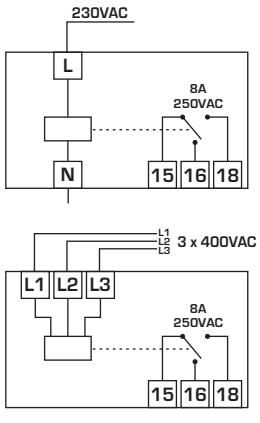
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

MV MV..MFBD1H/TGBD1H Over Relay

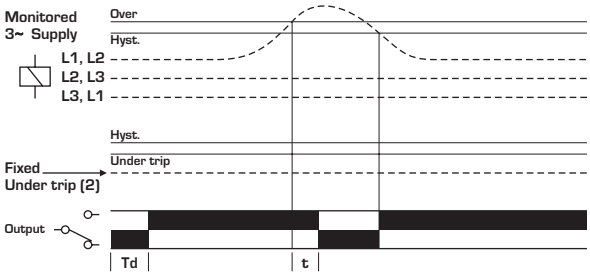
- COMPACT SIZE - 1 MODULE
- MONITOR OWN SUPPLY AND DETECTS IF ONE OR MORE PHASES EXCEED THE SET OVER VOLTAGE TRIP LEVELS
- MEASURES PHASE TO PHASE VOLTAGE
- ADJUSTAMENT FOR OVER VOLTAGE TRIP LEVEL
- ADJUSTAMENT FOR TIME DELAY (FROM OVER VOLTAGE CONDITION)
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for control the Over Voltage plus time delay.

TECHNICAL DATA

	UNIT	MVMFBD1H	MVTGBD1H
INPUT			
Supply voltage AC	VAC	230	3 x 400
Frequency range	Hz	47 - 63	
Trip Levels	Over	105 - 125% of **U**	
Range operating voltage	VAC	Un.195-295_Ov.340-500	
Power consumption (max. AC)	VA	13 (1,5W)	15 (2,2W)
Supply indication	-	Green LED **U**	
OUTPUT RELAY			
Max. power rating relay	VA	2.000 Ac1	
Rated current	A	8	
Rated operational voltage	VAC	250	
Breaking power	W	240	
Contact life	Elettr. Mecc.	1×10^5 ops 1×10^7 ops	
Inrush Current	A	10A < 3s	
Min. Switching Load	VDC	5 (10mA)	
Changeover contacts	-	1 Au+AgCdO	
Output Indication	-	Red LED **R**	
GENERAL			
Hysteresis (factory set)	%	+- 2 of trip level	
Response Time	ms	100	
Time Range	sec	0,2 - 10 (**t**)	
Power on delay	sec	1 (**Td**)	
Temperature work	°C	- 10 / +50	
Electical Strength	kV	4	
Protection degree	IP	40	
Relative Humidity	RH%	95	
Weight	g	60	
Dimensions	mm	98 x 17.5 x 64	
Conforms to	-	CE	

FUNCTIONS



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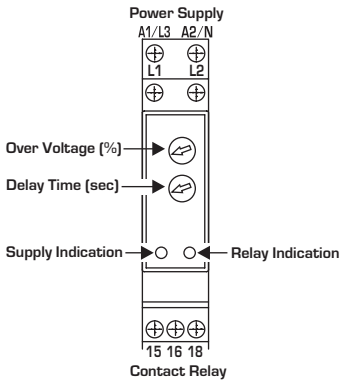
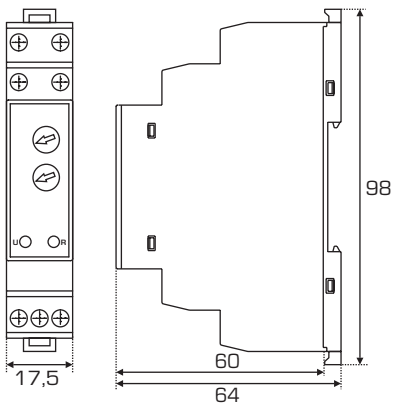
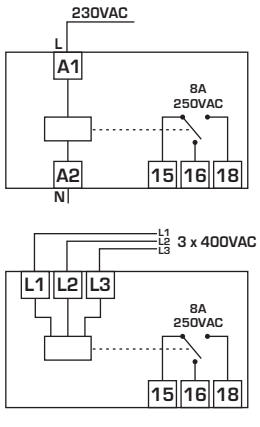


DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

CL CLMSBD1/5-16 Current Relay

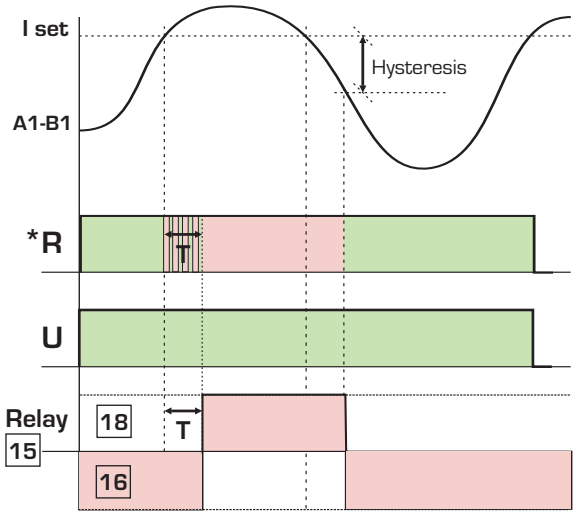
- COMPACT SIZE - 1 MODULE
- USABLE FOR CURRENT SENSING FROM CURRENT TRANSFORMER
- SUPPLY ISN'T GALVANICALLY SEPARATED FROM MEASURED CURRENT, IT MUST BE IN THE SAME PHASE
- TIME RANGE 0 - 10sec.
- UNIVERSAL SUPPLY 24VDC/24-240VAC
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for monitoring current.

TECHNICAL DATA

	UNIT	CLMSBD1/5-16
INPUT		
Supply voltage DC	VDC	24
Supply voltage AC	VAC	24 - 240 (+10% -15%)
Frequency range	Hz	47 - 63
Power consumption (max. AC)	VA	8.5 (2.6W)
Current range AC/DC selectable	A	0.25 - 5/0.8 - 16
Supply indication	-	Green LED **U**
OUTPUT RELAY		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Changeover contacts	-	1 Au+AgCdO
Output Indication	-	Red/Green LED **R**
GENERAL		
Time Delay	sec	0 - 10 **T**
Setting Accuracy	%	5
Repeat Accuracy	%	< 1
Hysteresis (fault to OK)	%	0.6 - 1.2 of the range
Temperature dependancy	%/°C	< 0.1
Temperature work	°C	-10 /+50
Storage temperature	°C	-30 /+70
Electical Strength	kV	4
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	65
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	CE

FUNCTIONS



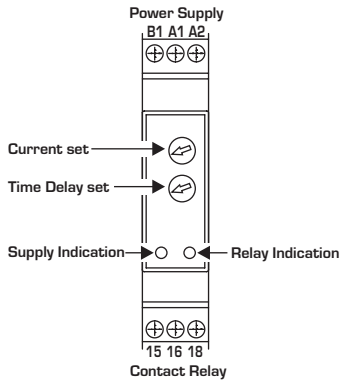
Prime current (A) / 5A

10/5 - 15/5 - 20/5 - 25/5 - 30/5 - 40/5 - 50/5 - 60/5 - 75/5
100/5 - 125/5 - 150/5 - 200/5

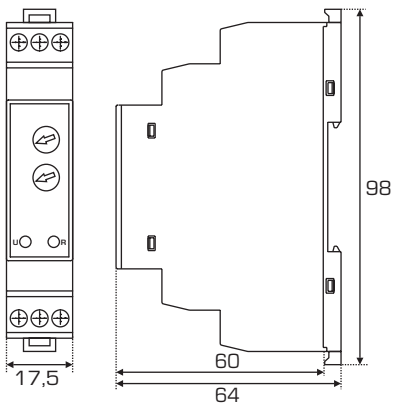
Type 5: Range current 0.25 - 5A +/-5%
Type 16: Range current 0.8 -16A +/-5%

*The R Led is Bicolor:
If **I** input is < **I** set. the Led is Green and Relay is Off.
If **I** input is > **I** set. the Led is Red and Relay is On.

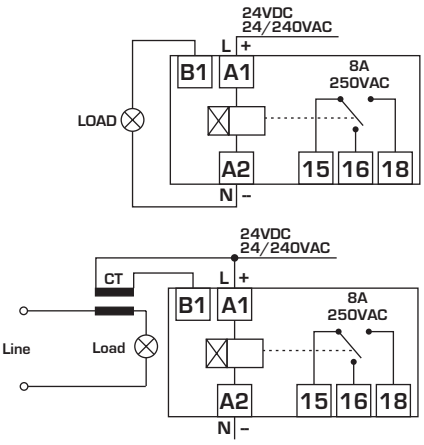
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

MF MFMFBD1 Frequency Monitor

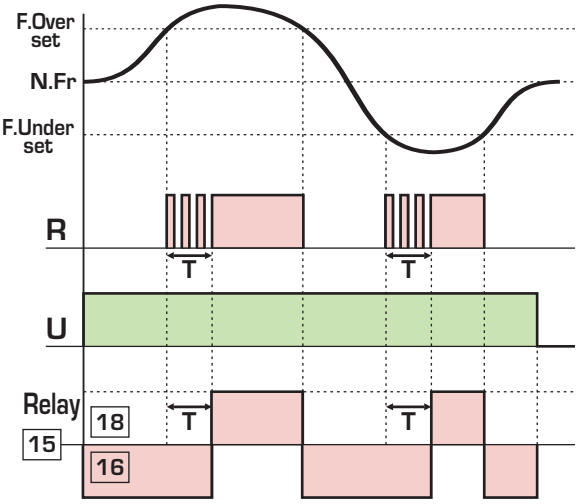
- COMPACT SIZE - 1 MODULE
- UNDER AND OVER FREQUENCY SET
- TIME RANGE 0 - 10sec.
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for monitoring frequency

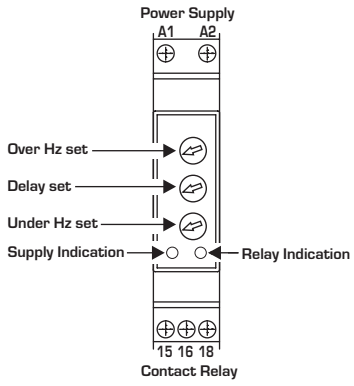
TECHNICAL DATA

	UNIT	MFMFBD1
INPUT		
Supply voltage AC	VAC	230 +-15%
Frequency range	Hz	35 - 60
Frequency selectable	Hz	36 - 45 _ 46 - 55
Power consumption (max. AC)	VA	8.5 (2.6W)
Supply indication	-	Green LED **U**
OUTPUT RELAY		
Max. power rating relay	VA	2.000 Ac1
Rated current	A	8
Rated operational voltage	VAC	250
Breaking power	W	240
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops
Inrush Current	A	10A < 3s
Min. Switching Load	VDC	5 (10mA)
Changeover contacts	-	1 Au+AgCdO
Output Indication	-	Red LED **R**
GENERAL		
Time Delay	sec	0 - 10 **T**
Setting Accuracy	%	2
Repeat Accuracy	%	0.5 constant conditions
Hysteresis	Hz	+- 1
Temperature dependancy	%/°C	< 0.1
Temperature work	°C	-10/+50
Storage temperature	°C	-30/+70
Electical Strength	kV	4
Protection degree	IP	40
Relative Humidity	RH%	95
Weight	g	65
Dimensions	mm	98 x 17.5 x 64
Conforms to	-	CE

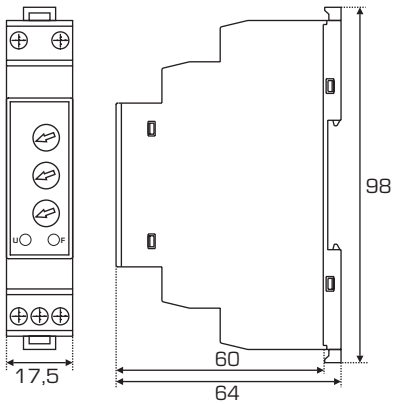
FUNCTIONS



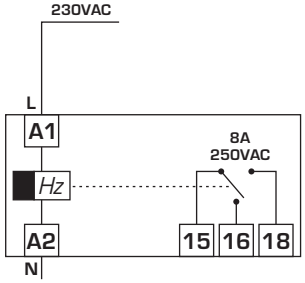
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



MICROIDEA

TPM...CII1/III1 Motor Protection Relay

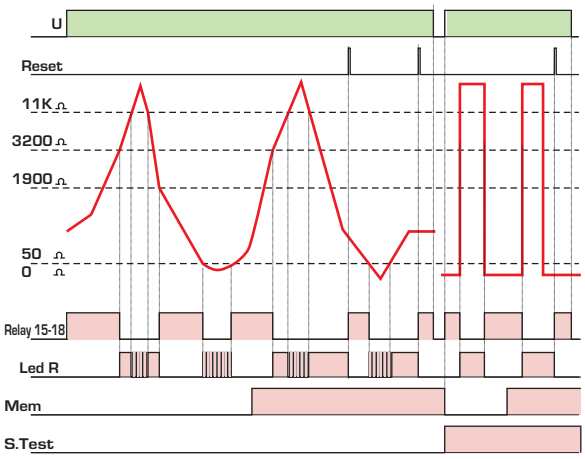
- COMPACT SIZE - 1 MODULE
- SENSOR TEST
- MANUAL OR AUTOMATIC RESET
- MEMORY AND FAILURE SET
- PROTECTION RELAY FOR MOTOR WITH PTC SENSOR
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for temperature control of PTC electrical motors .

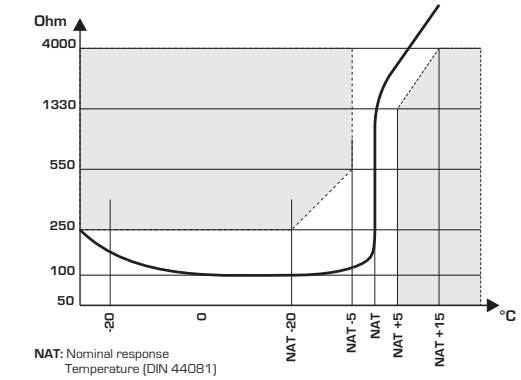
TECHNICAL DATA

	UNIT	TPMCII1	TPMIII1
INPUT			
Supply voltage DC	VDC	24	-
Supply voltage AC	VAC	24	90 - 264
Frequency range	Hz	47 - 63	
Power consumption (max. AC)	VA	14 (2.7W)	
Supply indication	-	Green LED **U**	
MEASURING CIRCUIT			
Tipe of PTC sensor	-	According to DIN 44081	
Total PTC resistance R1+R2+RN	kΩ	< 1.5	
Trip resistance	kΩ	3.2 +- 10%	
Reset resistance	A	1.9 +- 10%	
Voltage at T1 - T2	VAC	< 2.5	
OUTPUT RELAY			
Max. power rating relay	VA	2.000 Ac1	
Rated current	A	8	
Rated operational voltage	VAC	250	
Breaking power	W	240	
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops	
Inrush Current	A	10A < 3s	
Min. Switching Load	VDC	5 (10mA)	
Changeover contacts	-	1 Au+AgCdO	
Output Indication	-	Red LED **R**	
GENERAL			
Temperature work	°C	- 10 / +50	
Storage Temperature	°C	- 30 / +70	
Electical Strength	kV	4	
Protection degree	IP	40	
Relative Humidity	RH%	95	
Weight	g	70	
Dimensions	mm	98 x 17.5 x 64	
Conforms to	-	CE	

FUNCTIONS

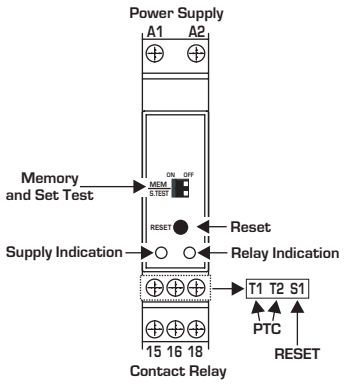


PTC RESISTIVE CURVE

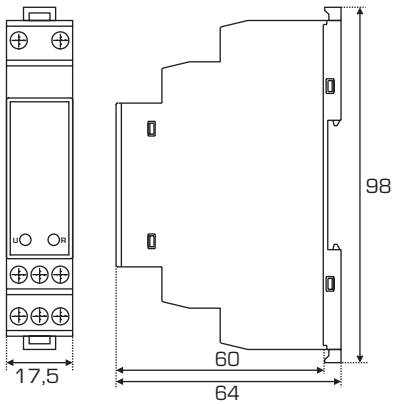


NAT: Nominal response Temperature (DIN 44081)

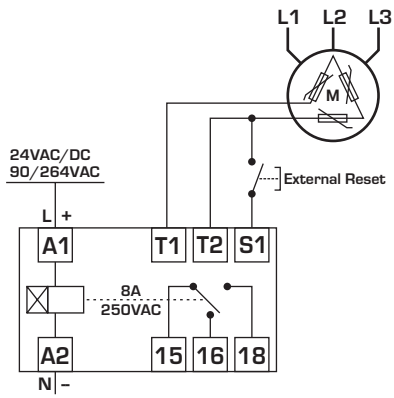
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



LR LRM...CII1/EII1/FII1 Liquid Level Control

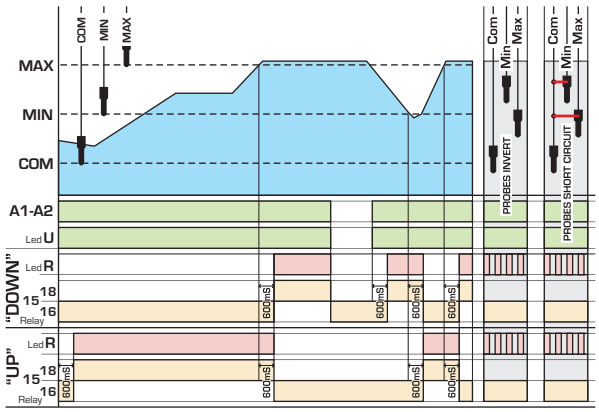
- COMPACT SIZE - 1 MODULE
- FOR ALL CONDUCTIVE LIQUID
- AUTOMATIC RESETTING
- FROM 2,5K TO 50K SENSIVITY ADJUSTABLE
- 1 POLE CHANGEOVER CONTACT
- ADVANCED DESIGN
- DIN RAIL MOUNTING EN50.022

Typical application for control and maintenance of maximum and/or minimum level of conductive liquids, tapwater, seawater, sewage, coffe, etc...

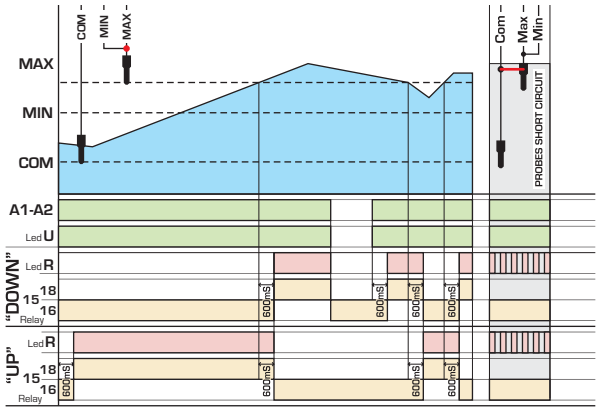
TECHNICAL DATA

	UNIT	LRMCII1	LRMEII1	LRMFII1
INPUT				
Supply voltage AC	VAC	24	110	230
Frequency range	Hz	47 - 63		
Power consumption (max. AC)	VA	5.6		
Supply indication	-	Green LED **U**		
OUTPUT RELAY				
Max. power rating relay	VA	2.000 Ac1		
Rated current	A	8		
Rated operational voltage	VAC	250		
Breaking power	W	240		
Contact life	Elettr. Mecc.	1 x 10^5 ops 1 x 10^7 ops		
Inrush Current	A	10A < 3s		
Min. Switching Load	VDC	5 (10mA)		
Changeover contacts	-	1 Au+AgCdO		
Output Indication	-	Red LED **R**		
GENERAL				
Function Select	-	DOWN or UP		
Adjustable sensivity	Kohm	2.5 to 50		
Probe supply	VAC	8.5		
Isolation input probe	kV	3 (1.2 50uS)		
Number of probe	n°	2 - 3		
Maximum cable length	mt	800		
Temperature work	°C	-10/+50		
Storage temperature	°C	-30+70		
Electical Strength	kV	4		
Protection degree	IP	40		
Relative Humidity	RH%	95		
Weight	g	120		
Dimensions	mm	98 x 36 x 64		
Conforms to	-	CE		

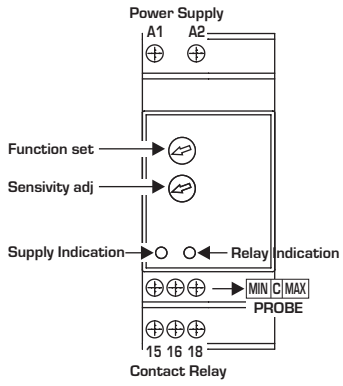
FUNCTIONS with 3 probe



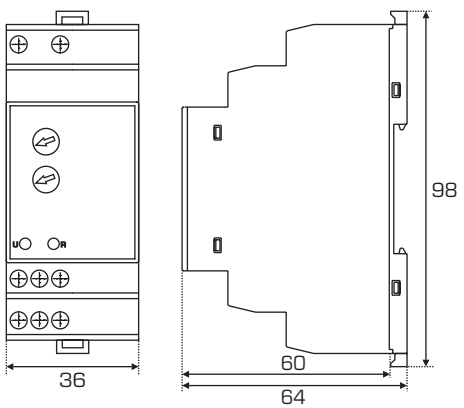
FUNCTIONS with 2 probe (short ciruite Min and Max probe)



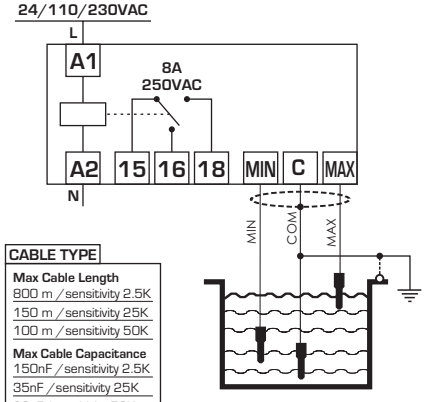
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



CABLE TYPE

Max Cable Length	
800 m / sensitivity 2.5K	
150 m / sensitivity 25K	
100 m / sensitivity 50K	
Max Cable Capacitance	
150nF / sensitivity 2.5K	
35nF / sensitivity 25K	
20nF / sensitivity 50K	

Cable length is calculated using 600V 3 wire 0.75mm

MICROIDEA