sieland®

Products Instruction 2020

Time relays

Three phase monitoring relays

Voltage、Current monitoring relays

Frequency monitoring relays

SHANGHAI SIELAND ELECTRIC CO.,LTD

sieland®

Shanghai Sieland Electric Co., Ltd

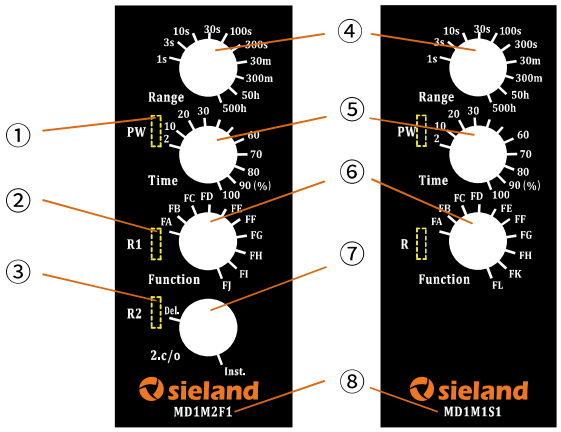
Company Profile

Shanghai Sieland Electric Co., Ltd is a technology oriented company focused on low voltage products R & D, production and sales, our products cover the following: time relays, three phase monitoring relays (phase sequence / phase absence、 under voltage、 over voltage、 phase unbalance), voltage monitoring relays, current monitoring relays, frequency relays.

The design of our products is consistent with international standards, precise and with fashion sense, the products are suitable for a variety of applications, the performance is guaranteed, in addition to the standard models listed in the catalogue, we can also customise the products according to the specific needs of our customers. It is the goal of our unremitting efforts to provide customers with high quality, high value-added products and prompt technical support. We sincerely look forward to working with you to create win-win situation.



Time Relays Specification



① PW：green LED, power supply indication
② R1 ：yellow LED, Relay 1 status indication
③ R2 ：yellow LED, Relay 2 status indication
④ Time range setting： 1s, 3s, 10s … 500h
⑤ Time value setting： 2% … 100%
⑥ Functions： FA, FB, FC …
⑦ Relay 2 setting： delay or instantaneous
⑧ Product model

Products features:

- Single function relays or multi-function relays
- 2 power supply: 12 - 240 V AC/DC or 350 - 550 V AC
- Control signal Y1、X1 can be connected to A1 or Z2
- Relay 2 can be set as normal delay mode or instantaneous mode
- Control signal X1 can pause the timer and accumulate the timing value during delay process
- External potentiometer can be connected to realise remote timing value setting

Technical data:

Rated voltage :	12 - 240 V AC/DC or 350 - 550 V AC
Rated frequency :	DC or 50/60Hz
Terminal type :	Screw terminals
Width :	22.5 mm
Height :	92 mm
Length :	100 mm
Time range :	0.02s - 500h
Setting accuracy :	±10%
Repeatability :	±0.5%
Temperature drift :	±0.05%/°C
Voltage drift :	±0.2%/V
Switching capacity :	10A/250 V AC
Electrical durability :	10^5 cycles
Mechanical durability :	10^7 cycles
IP degree :	IP50/IP20
Temp. for operation :	–40°C…60°C
Temp. for storage :	–40°C…85°C
Relay output :	1 c/o or 2 c/o (SPDT)
Mounting :	35mm DIN rail
Standards :	IEC61812-1、GB14048.5

Time Relays——Selection Guide

	(Y1-A1/X1-A1) Vol. Control	(Y1-Z2/X1-Z2) Vol. free Control
AC/DC 12-240V	Form 1	Form 3
AC 350-550V	Form 2	Form 4

Form 1

Model	Fun.	Y1	X1	Z1/Z3	Del./Inst.	1R	2R	AC/DC 12-240V	AC 350-550V	(Y1-A1/X1-A1) Vol. Control	(Y1-Z2/X1-Z2) Vol. free Control	Ref. Figure
MD1M1S1	M1	●				●		●		●		①
MD1FAS1	FA	●				●		●		●		
MD1FBS1	FB	●				●		●		●		
MD1FCS1	FC	●				●		●		●		
MD1FDS1	FD	●				●		●		●		
MD1FES1	FE	●				●		●		●		
MD1FFS1	FF	●				●		●		●		
MD1FGS1	FG	●				●		●		●		
MD1FHS1	FH	●				●		●		●		
MD1FKS1	FK	●				●		●		●		
MD1FLS	FL					●		●				
MD1FNS1	FN	●				●		●		●		⑨
MD1FOS1	FO	●				●		●		●		
MD2FPS	FP					●		●				
MD2FQS	FQ					●		●				
MD1M2F1	M2	●	●	●	●		●	●		●		②
MD1FAF1	FA	●	●	●	●		●	●		●		
MD1FBF1	FB	●	●	●	●		●	●		●		
MD1FCF1	FC	●	●	●	●		●	●		●		
MD1FDF1	FD	●	●	●	●		●	●		●		
MD1FEF1	FE	●	●	●	●		●	●		●		
MD1FFF1	FF	●	●	●	●		●	●		●		
MD1FGF1	FG	●	●	●	●		●	●		●		
MD1FHF1	FH	●	●	●	●		●	●		●		
MD1FI	FI						●	●				
MD1FJ	FJ						●	●				
MD1FNF1	FN	●	●	●		●		●		●		⑩
MD1FOF1	FO	●	●	●		●		●		●		
MD2FPF	FP			●			●	●				
MD2FQF	FQ			●			●	●				

Time Relays——Selection Guide (contitue)

Form 2

Model	Fun.	Y1	X1	Z1/Z3	Del./Inst.	1R	2R	AC/DC 12-240V	AC 350-550V	(Y1-A1/X1-A1) Vol. Control	(Y1-Z2/X1-Z2) Vol. free Control	Ref. Figure
MD3M1S1	M1	●				●			●	●		③
MD3FAS1	FA	●				●			●	●		
MD3FBS1	FB	●				●			●	●		
MD3FCS1	FC	●				●			●	●		
MD3FDS1	FD	●				●			●	●		
MD3FES1	FE	●				●			●	●		
MD3FFS1	FF	●				●			●	●		
MD3FGS1	FG	●				●			●	●		
MD3FHS1	FH	●				●			●	●		
MD3FKS1	FK	●				●			●	●		
MD3FLS	FL					●			●			
MD3FNS1	FN	●				●			●	●		⑪
MD3FOS1	FO	●				●			●	●		
MD4FPS	FP					●			●			
MD4FQS	FQ					●			●			
MD3M2F1	M2	●	●	●	●		●		●	●		④
MD3FAF1	FA	●	●	●	●		●		●	●		
MD3FBF1	FB	●	●	●	●		●		●	●		
MD3FCF1	FC	●	●	●	●		●		●	●		
MD3FDF1	FD	●	●	●	●		●		●	●		
MD3FEF1	FE	●	●	●	●		●		●	●		
MD3FFF1	FF	●	●	●	●		●		●	●		
MD3FGF1	FG	●	●	●	●		●		●	●		
MD3FHF1	FH	●	●	●	●		●		●	●		
MD3FI	FI						●		●			
MD3FJ	FJ						●		●			
MD3FNF1	FN	●	●	●		●			●	●		⑫
MD3FOF1	FO	●	●	●		●			●	●		
MD4FPF	FP			●			●		●			
MD4FQF	FQ			●			●		●			

Time Relays——Selection Guide (contitue)

Form 3

Model	Fun.	Y1	X1	Z1/Z3	Del./Inst.	1R	2R	AC/DC 12-240V	AC 350-550V	(Y1-A1/X1-A1) Vol. Control	(Y1-Z2/X1-Z2) Vol. free Control	Ref. Figure
MD1M1S2	M1	●				●		●			●	⑤
MD1FAS2	FA	●				●		●			●	
MD1FBS2	FB	●				●		●			●	
MD1FCS2	FC	●				●		●			●	
MD1FDS2	FD	●				●		●			●	
MD1FES2	FE	●				●		●			●	
MD1FFS2	FF	●				●		●			●	
MD1FGS2	FG	●				●		●			●	
MD1FHS2	FH	●				●		●			●	
MD1FKS2	FK	●				●		●			●	
MD1FNS2	FN	●				●		●			●	⑬
MD1FOS2	FO	●				●		●			●	
MD1M2F2	M2	●	●	●	●		●	●			●	⑥
MD1FAF2	FA	●	●	●	●		●	●			●	
MD1FBF2	FB	●	●	●	●		●	●			●	
MD1FCF2	FC	●	●	●	●		●	●			●	
MD1FDF2	FD	●	●	●	●		●	●			●	
MD1FEF2	FE	●	●	●	●		●	●			●	
MD1FFF2	FF	●	●	●	●		●	●			●	
MD1FGF2	FG	●	●	●	●		●	●			●	
MD1FHF2	FH	●	●	●	●		●	●			●	
MD1FNF2	FN	●	●	●		●		●			●	⑭
MD1FOF2	FO	●	●	●		●		●			●	

Time Relays——Selection Guide (continue)

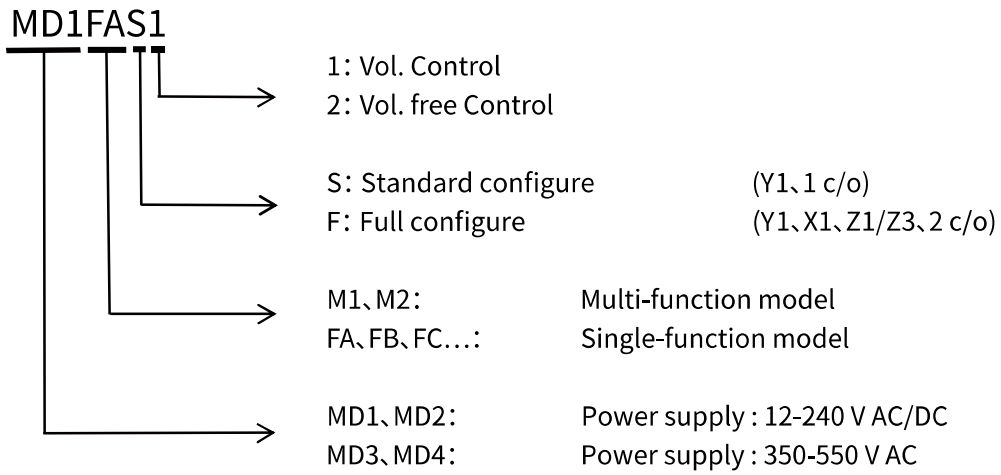
Form 4

Model	Fun.	Y1	X1	Z1/Z3	Del./Inst.	1R	2R	AC/DC 12-240V	AC 350-550V	(Y1-A1/X1-A1) Vol. Control	(Y1-Z2/X1-Z2) Vol. free Control	Ref. Figure
MD3M1S2	M1	●				●			●		●	⑦
MD3FAS2	FA	●				●			●		●	
MD3FBS2	FB	●				●			●		●	
MD3FCS2	FC	●				●			●		●	
MD3FDS2	FD	●				●			●		●	
MD3FES2	FE	●				●			●		●	
MD3FFS2	FF	●				●			●		●	
MD3FGS2	FG	●				●			●		●	
MD3FHS2	FH	●				●			●		●	
MD3FKS2	FK	●				●			●		●	
MD3FNS2	FN	●				●			●		●	⑮
MD3FOS2	FO	●				●			●		●	
MD3M2F2	M2	●	●	●	●		●		●		●	⑧
MD3FAF2	FA	●	●	●	●		●		●		●	
MD3FBF2	FB	●	●	●	●		●		●		●	
MD3FCF2	FC	●	●	●	●		●		●		●	
MD3FDF2	FD	●	●	●	●		●		●		●	
MD3FEF2	FE	●	●	●	●		●		●		●	
MD3FFF2	FF	●	●	●	●		●		●		●	
MD3FGF2	FG	●	●	●	●		●		●		●	
MD3FHF2	FH	●	●	●	●		●		●		●	
MD3FNF2	FN	●	●	●		●			●		●	⑯
MD3FOF2	FO	●	●	●		●			●		●	

Glossary:

Y1:	Delay control signal
X1:	Timing pause control signal
Z1/Z3:	External potentiometer control signal
Z2:	Voltage-free terminal
Del./Inst.:	Delay/Instantaneous
M1:	Multi-function (10 functions: FA、FB、FC、FD、FE、FF、FG、FH、FK、FL)
M2:	Multi-function (10 functions: FA、FB、FC、FD、FE、FF、FG、FH、FI、FJ)
FA … FQ:	Delay function FA … FQ
A1-A2:	Power supply
Vol. Control:	Control signal Y1/X1 connect to A1 : Y1-A1/X1-A1
Vol. free Control:	Control signal Y1/X1 connect to Z2 : Y1-Z2/X1-Z2

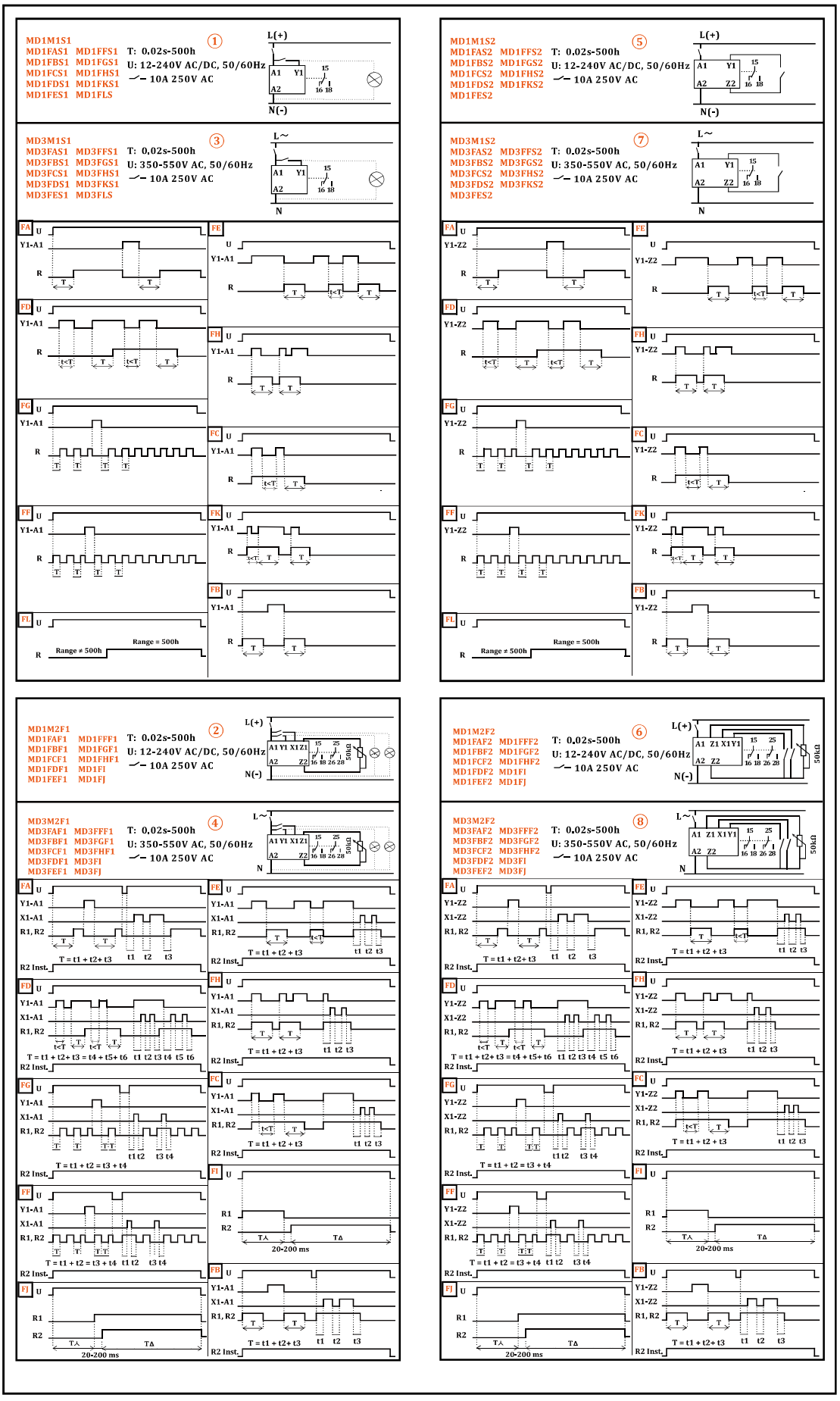
Model explanation:



Function explanation:

FA:	Power-on delay
FB:	power-on pulse delay
FC:	Control signal disconnect delay
FD:	Symmetrical on/off delay
FE:	Control signal disconnect pulse delay
FF:	Power-on flashing (Relay start with on status)
FG:	Power-on flashing (Relay start with off status)
FH:	Single pulse generator
FI:	Star-Delta delay
FJ:	Star-Delta delay
FK:	Single pulse generator (timing can be reset by control signal Y1 during delay process)
FL:	Switch relay
FN:	Power-on flashing (Relay power on initial status depends on control signal Y1)
FO:	Asymmetrical on/off delay
FP:	Power-off delay
FQ:	Power-off delay

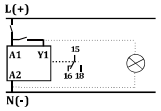
Reference figure:



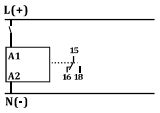
Reference figure (continue)

⑨

MD1FNS1
MD1FOS1
T: 0.02s-500h
U: 12-240V AC/DC, 50/60Hz
10A 250V AC

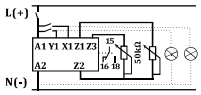


MD2FPS
MD2FQS
T: 0.15s-500s
U: 12-240V AC/DC, 50/60Hz
5A 250V AC

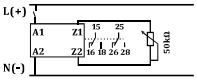


⑩

MD1FNF1
MD1FOF1
T: 0.02s-500h
U: 12-240V AC/DC, 50/60Hz
10A 250V AC

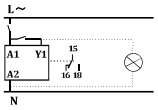


MD2FPF
MD2FQF
T: 0.15s-15min
U: 12-240V AC/DC, 50/60Hz
5A 250V AC

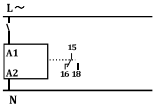


⑪

MD3FNS1
MD3FOS1
T: 0.02s-500h
U: 350-550V AC, 50/60Hz
10A 250V AC

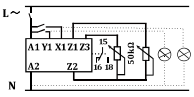


MD4FPS
MD4FQS
T: 0.15s-500s
U: 350-550V AC, 50/60Hz
5A 250V AC

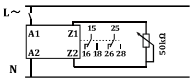


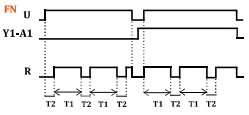
⑫

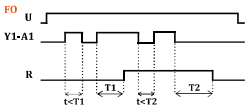
MD3FNF1
MD3FOF1
T: 0.02s-500h
U: 350-550V AC, 50/60Hz
10A 250V AC

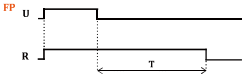


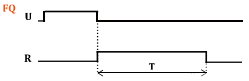
MD4FPF
MD4FQF
T: 0.15s-15min
U: 350-550V AC, 50/60Hz
5A 250V AC

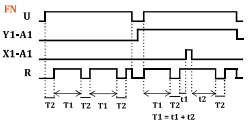


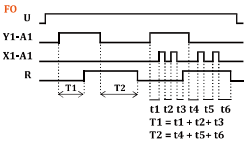


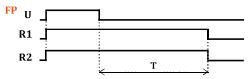


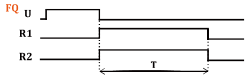






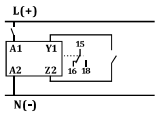






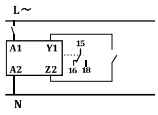
⑬

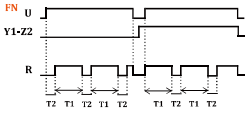
MD1FNS2
MD1FOS2
T: 0.02s-500h
U: 12-240V AC/DC, 50/60Hz
10A 250V AC

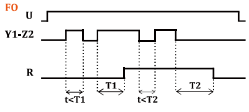


⑮

MD3FNS2
MD3FOS2
T: 0.02s-500h
U: 350-550V AC, 50/60Hz
10A 250V AC

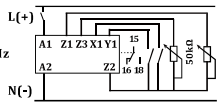






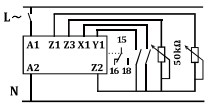
⑭

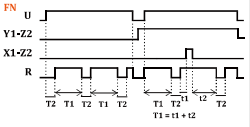
MD1FNF2
MD1FOF2
T: 0.02s-500h
U: 12-240V AC/DC, 50/60Hz
10A 250V AC

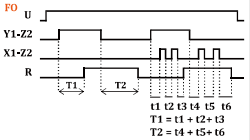


⑯

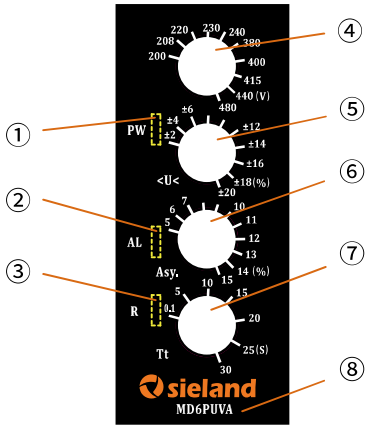
MD3FNF2
MD3FOF2
T: 0.02s-500h
U: 350-550V AC, 50/60Hz
10A 250V AC







Three phase monitoring relays specification



① PW：green LED, power supply indication
② AL ：yellow LED, alarm indication
③ R ：yellow LED, relay status indication
④ 10 line voltage benchmark：200V, 208V, 220V … 480V
⑤ (Over-voltage、under-voltage) windows setting
⑥ Phase asymmetric setting
⑦ Delay time value setting
⑧ Product model

Products features:

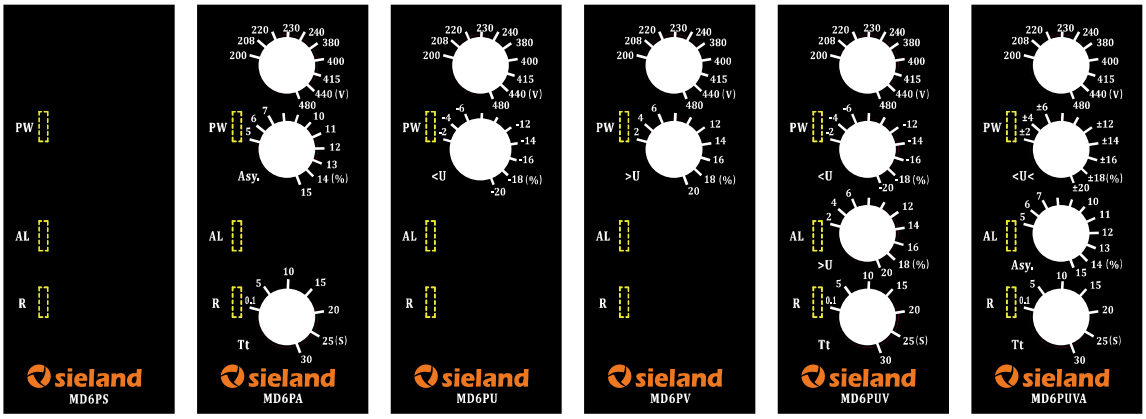
- Monitoring self-power supply
- Phase sequence / absence、 under voltage、 over voltage、 phase unbalance
- Line voltage benchmark：200V, 208V, 220V, 230V, 240V, 380V, 400V, 415V, 440V, 480V
- Two delay mode：On Delay/Off Delay mode can be customised, default mode is Off Delay

Technical data:

Rated voltage:	150 - 600V AC, 50/60 Hz (line voltage)
Under-voltage:	–2% … –20% (line voltage)
Over-voltage:	2% … 20% (line voltage)
Time delay:	0.1s - 30s
Hysteresis:	1% (under voltage or over voltage setting value)
Relay output	2 c/o
Repeatability:	±0.5%
Temperature drift:	±0.05%/°C
Voltage drift:	±1%/V
Relay capacity:	8A/250VAC
Electrical durability:	10^5 cycles
Mechanical durability:	10^7 cycles
IP degree:	IP50/IP20
Operation temperature:	–40°C…60°C
Storage temperature:	–40°C…85°C
Width:	22.5 mm
Height:	92 mm
Length:	100 mm
Mounting:	35mm DIN rail
Standards:	IEC60255-1、GB14048.5

Three phase monitoring relays—Selection Guide

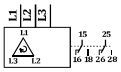
Model \ Func.	Phase Sequence Phase Loss Phase Absence	Phase Asymmetric (Asym.)	Under-voltage (<U)	Over-voltage (>U)	Delay mode (Off/ON Delay)	Reference Figure
MD6PS	●					①
MD6PA	●	●			●	②
MD6PU	●		●			③
MD6PV	●			●		④
MD6PUV	●		●	●	●	⑤
MD6PUVA	●	●	●	●	●	⑥

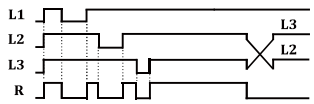


Reference figure:

MD6PS ①

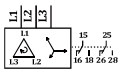
Line Vol: 150-600V AC, 50/60Hz
8A 250V AC



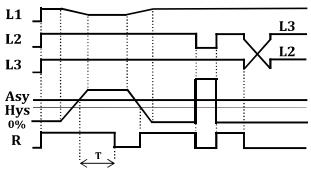


MD6PA ②

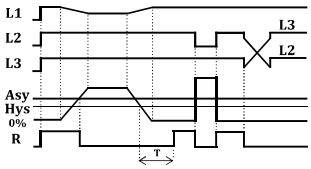
T: 0.1s-30s
Line Vol: 150-600V AC, 50/60Hz
8A 250V AC



with off delay

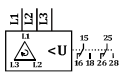


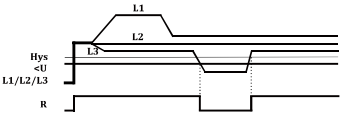
with on delay



MD6PU ③

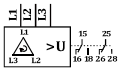
Line Vol: 150-600V AC, 50/60Hz
8A 250V AC

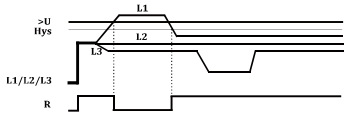




MD6PV ④

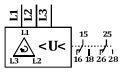
T: 0.1s-30s
Line Vol: 150-600V AC, 50/60Hz
8A 250V AC



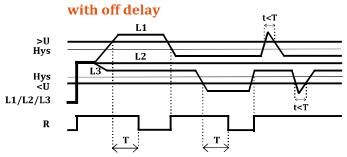


MD6PUV ⑤

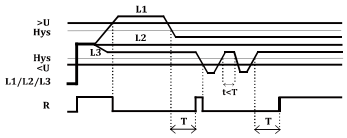
T: 0.1s-30s
Line Vol: 150-600V AC, 50/60Hz
8A 250V AC



with off delay

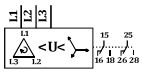


with on delay

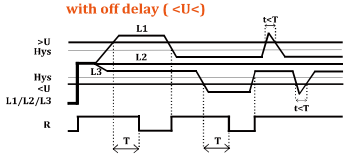


MD6PUVA ⑥

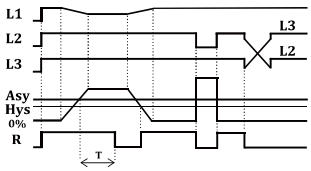
T: 0.1s-30s
Line Vol: 150-600V AC, 50/60Hz
8A 250V AC



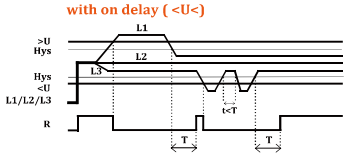
with off delay (<U<)



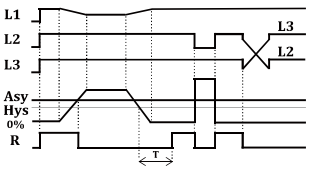
with off delay (Asy.)



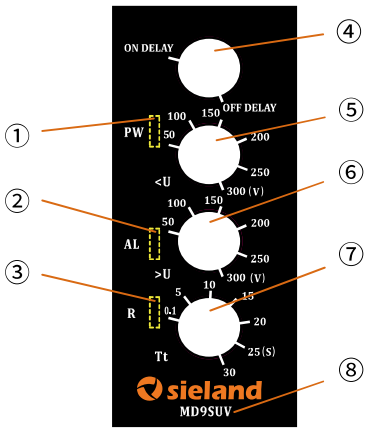
with on delay (<U<)



with on delay (Asy.)



Single phase monitoring relays specification



① PW:green LED, power supply indication
② AL :yellow LED, alarm indication
③ R :yellow LED, relay status indication
④ On/Off Delay :delay mode setting
⑤ <U : under voltage setting
⑥ >U : over voltage setting
⑦ Tt : delay time value setting
⑧ Product model

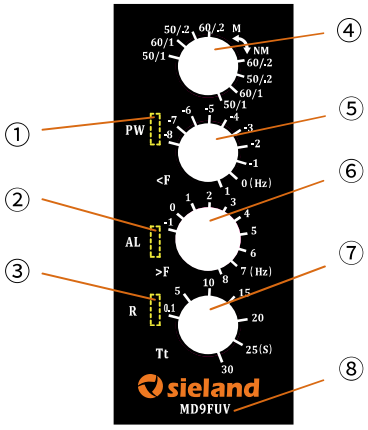
Products features:

- Monitoring self-power supply：50 - 300V AC/DC or 250 - 550V AC
- Two delay mode available: On Delay/Off Delay can be selected on the panel
- Momery or None Memory mode can be customised, default mode is None Memory mode

Technical data:

Rated voltage : 50 - 300V AC/DC or 250 - 550V AC
Under-voltage: 50 - 300V or 250 - 550V
Over-voltage: 50 - 300V or 250 - 550V
Hysterisys : 0.5V
Delay time : 0.1s - 30s
Relay output: 2 c/o
Repeatability: ±0.5%
Temp. drift: ±0.05%/°C
Voltage drift: ±1%/V
Relay capacity: 8A/250VAC
Electrical durability: 10^5 cycles
Mechanical durability: 10^7 cycles
IP degree: IP50/IP20
Operation Temp. : –40°C…60°C
Storage Temp. : –40°C…85°C
Size: 22.5*92*100 mm
Mounting: 35mm DIN rail
Standards: IEC60255-1、GB14048.5

Frequency monitoring relays specification



① PW：green LED, power supply indication
② AL ：yellow LED, alarm indication
③ R ：yellow LED, relay status indication
④ Frequency benchmark and memory mode setting
⑤ Under-frequency threshold setting
⑥ Over-frequency threshold setting
⑦ Delay time value setting
⑧ Product model

Products features:

- Monitoring self-power supply：50 - 300V AC or 200 - 550V AC
- Frequency and memory setting,M：with memory, NM：without memory
- Ratio：1 or 0.2 , e.g. 50/1 means 50Hz with ratio 1, 60/.2 means 60Hz with ratio 0.2
- Two delay mode available： On delay/Off delay can be customised, default mode is Off delay

Technical data:

Rated voltage : 50 - 300V AC or 200 - 550V AC
Under-frequency: 42-68Hz with ratio 1, 48.4-61.6Hz with ratio 0.2, accuracy is 0.2Hz
Over-frequency: 42-68Hz with ratio 1, 48.4-61.6Hz with ratio 0.2, accuracy is 0.2Hz
Hysterisys : 0.15Hz
Delay time : 0.1s - 30s
Relay output: 2 c/o
Repeatability: ±0.5%
Temp. drift: ±0.05%/°C
Voltage drift: ±1%/V
Relay capacity: 8A/250VAC
Electrical durability: 10^5 cycles
Mechanical durability: 10^7 cycles
IP degree: IP50/IP20
Operation Temp. : –40°C…60°C
Storage Temp. : –40°C…85°C
Size: 22.5*92*100 mm
Mounting: 35mm DIN rail
Standards: IEC60255-1、GB14048.5

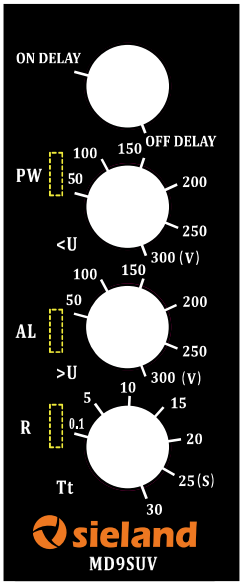
Single phase voltage、frequency monitoring relay—selectrion guide

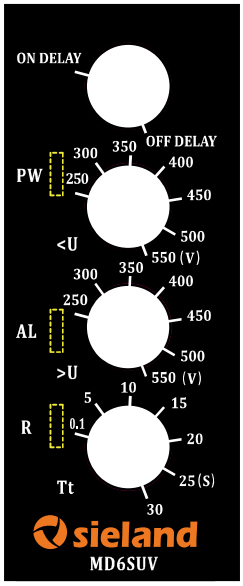
Single phase voltage monitoring relays:

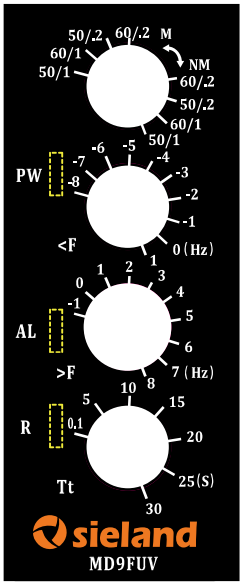
Voltage	Model	Reference figure
50-300V AC/DC, 50/60 Hz	MD9SUV	①
250-550V AC, 50/60 Hz	MD6SUV	

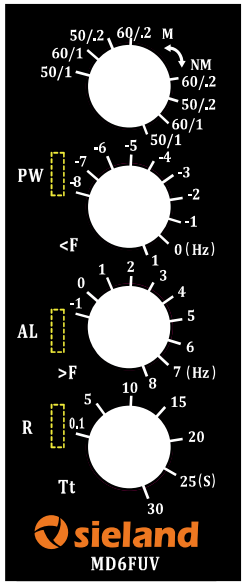
Frequency monitoring relays:

Frequency	Model	Reference figure
42-68Hz (50-300V AC)	MD9FUV	②
42-68Hz (200-550V AC)	MD6FUV	





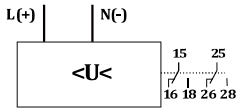




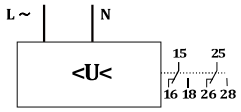
Reference figure:

①

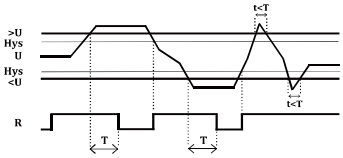
MD9SUV T: 0.1s-30s
L-N: 50 - 300V AC/DC, 50/60Hz
⁄– 8A 250V AC



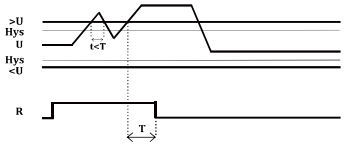
MD6SUV T: 0.1s-30s
L-N: 250 - 550V AC, 50/60Hz
⁄– 8A 250V AC



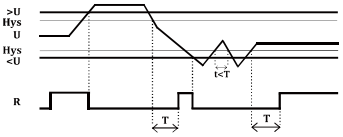
without memory
with off delay



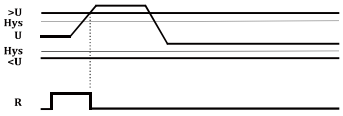
with memory
with off delay



without memory
with on delay

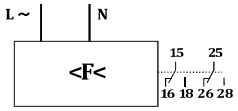


with memory
with on delay

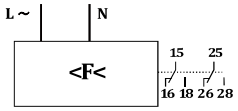


②

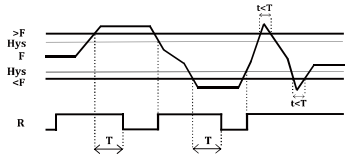
MD9FUV T: 0.1s-30s
L-N: 50 - 300V AC
⁄– 8A 250V AC



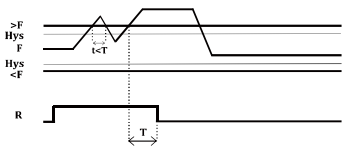
MD6FUV T: 0.1s-30s
L-N: 200 - 550V AC
⁄– 8A 250V AC



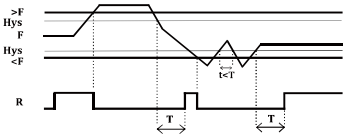
without memory
with off delay



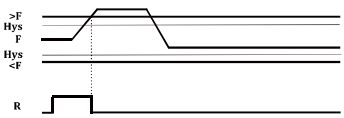
with memory
with off delay



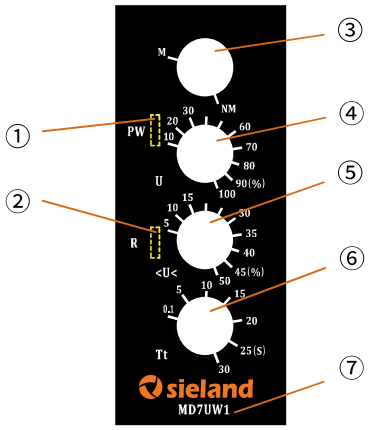
without memory
with on delay



with memory
with on delay



Voltage monitoring relays specification



① PW: Green LED, power supply indication
② R: Relay status indication
③ M/NM: Memory or without memory selection
④ U: Voltage threshold setting
⑤ <U<: Under and over voltage setting
⑥ Tt : Delay time value setting
⑦ Product model

Products features:

- Power supply: 24-240V AC/DC or 200-600V AC
- Three monitoring channels: V1/V2/V3 - C
- Memory mode can be set on the panel, M: with memory, NM: without memory
- Two delay mode available: On delay/Off delay can be customised, default mode is Off delay

Technical data:

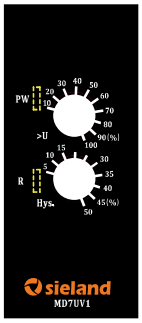
Power supply:	24 - 240V AC/DC or 200 - 600V AC
Voltage threshold:	10 - 100% (V1/V2/V3 - C)
Window setting:	5 - 50% (voltage threshold)
Hysterisys setting:	10% (voltage threshold)
Delay setting:	0.1s - 30s
Relay output:	2 c/o
Repeatability:	±0.5%
Temp. drift:	±0.05%/°C
Voltage drift:	±1%/V
Switch current:	8A/250VAC
Electrical durability:	10^5 cycles
Mechanical durability:	10^7 cycles
IP degree:	IP50/IP20
Temerature:	–40°C…60°C
Store temperature:	–40°C…85°C
Size:	22.5*92*100 mm
Mounting:	35mm DIN rail
Standards:	IEC60255-1、GB14048.5

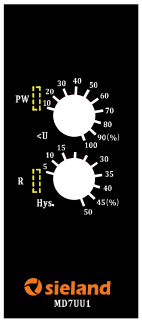
Voltage monitoring relays——Selection Guide

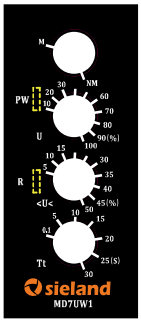
Voltage monitoring relays:

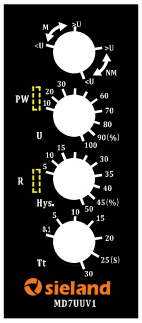
	Mode / Monitoring range		Without memory, no delay		With or without memory, delay mode	
			Over-vol(>U)	Under-vol(<U)	Window mode (<U<)	Over/Under-vol(>U,<U)
Power supply 24 - 240 V AC/DC	V1-C : 0.05 - 0.5	V AC/DC	MD7UV1	MD7UU1	MD7UW1	MD7UUV1
	V2-C : 0.3 - 3	V AC/DC				
	V3-C : 0.5 - 5	V AC/DC				
	V1-C : 1 - 10	V AC/DC	MD7UV2	MD7UU2	MD7UW2	MD7UUV2
	V2-C : 5 - 50	V AC/DC				
	V3-C : 10 - 100	V AC/DC				
	V1-C : 15 - 150	V AC/DC	MD7UV3	MD7UU3	MD7UW3	MD7UUV3
	V2-C : 30 - 300	V AC/DC				
	V3-C : 60 - 600	V AC/DC				
Reference figure			①	②	③	④

	Mode / Monitoring range		Without memory, no delay		With or without memory, delay mode	
			Over-vol(>U)	Under-vol(<U)	Window mode (<U<)	Over/Under-vol(>U,<U)
Power supply 200 - 600 V AC	V1-C : 0.05 - 0.5	V AC/DC	MD8UV1	MD8UU1	MD8UW1	MD8UUV1
	V2-C : 0.3 - 3	V AC/DC				
	V3-C : 0.5 - 5	V AC/DC				
	V1-C : 1 - 10	V AC/DC	MD8UV2	MD8UU2	MD8UW2	MD8UUV2
	V2-C : 5 - 50	V AC/DC				
	V3-C : 10 - 100	V AC/DC				
	V1-C : 15 - 150	V AC/DC	MD8UV3	MD8UU3	MD8UW3	MD8UUV3
	V2-C : 30 - 300	V AC/DC				
	V3-C : 60 - 600	V AC/DC				
Reference figure			①	②	③	④







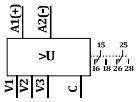


Reference figure:

①

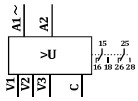
MD7UV1
MD7UV2
MD7UV3

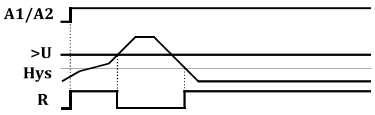
A1/A2: 24-240V AC/DC, 50/60Hz
8A 250V AC



MD8UV1
MD8UV2
MD8UV3

A1/A2: 200-600V AC, 50/60Hz
8A 250V AC

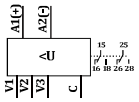




②

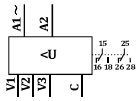
MD7UU1
MD7UU2
MD7UU3

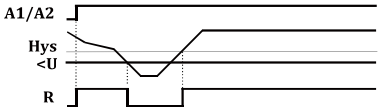
A1/A2: 24-240V AC/DC, 50/60Hz
8A 250V AC



MD8UU1
MD8UU2
MD8UU3

A1/A2: 200-600V AC, 50/60Hz
8A 250V AC

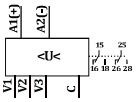




③

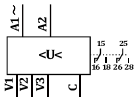
MD7UW1
MD7UW2
MD7UW3

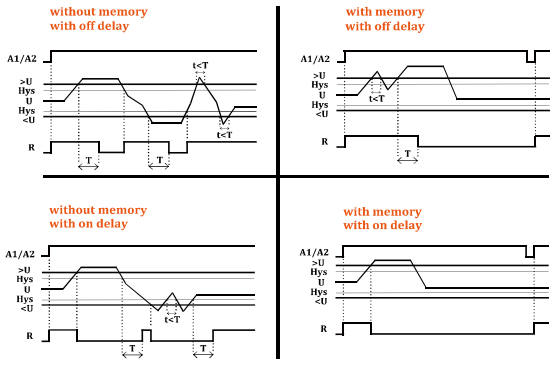
T: 0.1-30s
A1/A2: 24-240V AC/DC, 50/60Hz
8A 250V AC



MD8UW1
MD8UW2
MD8UW3

T: 0.1-30s
A1/A2: 200-600V AC, 50/60Hz
8A 250V AC

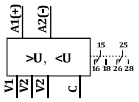




④

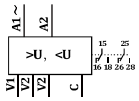
MD7UUV1
MD7UUV2
MD7UUV3

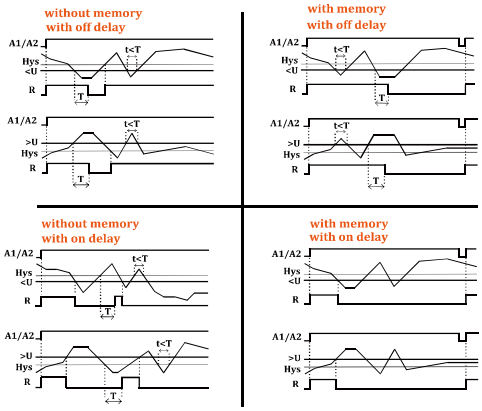
T: 0.1-30s
A1/A2: 24-240V AC/DC, 50/60Hz
8A 250V AC



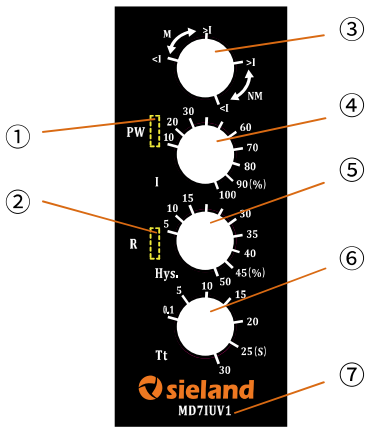
MD8UUV1
MD8UUV2
MD8UUV3

T: 0.1-30s
A1/A2: 200-600V AC, 50/60Hz
8A 250V AC





Current monitoring relays specification



① PW: Green LED, power supply indication
② R: Relay status indication
③ M/NM: Memory or without memory setting
④ I: Current threshold setting
⑤ <I<: Under and over current setting
⑥ Tt : Delay time value setting
⑦ Product model

Products features:

- Power supply: 24-240V AC/DC or 200-600V AC
- Three monitoring channels: I1/I2/I3 - C
- Memory mode can be set on the panel, M: with memory, NM: without memory
- Two delay mode available: On delay/Off delay can be customised, default mode is Off delay

Technical data:

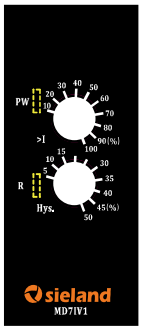
Power supply:	24 - 240V AC/DC or 200 - 600V AC
Current threshold:	10 - 100% (I1/I2/I3 - C)
Window setting:	5 - 50% (current threshold)
Hysterisys setting:	10% (current threshold)
Delay setting:	0.1s - 30s
Relay output:	2 c/o
Repeatability:	±0.5%
Temp. drift:	±0.05%/°C
Voltage drift:	±1%/V
Switch current:	8A/250VAC
Electrical durability:	10^5 cycles
Mechanical durability:	10^7 cycles
IP degree:	IP50/IP20
Temerature:	-40°C…60°C
Store temperature:	-40°C…85°C
Size:	22.5*92*100 mm
Mounting:	35mm DIN rail
Standards:	IEC60255-1、GB14048.5

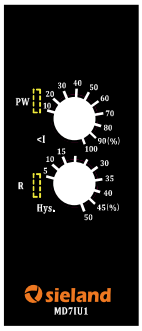
Current monitoring relays——Selection Guide

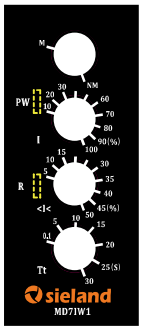
Current monitoring relays:

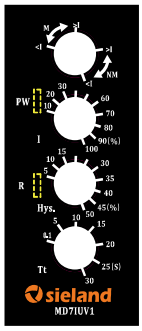
	Mode / Monitoring range	Without memory, no delay		With or without memory, delay mode	
		Over-cur(>I)	Under-cur(<I)	Window mode (<I<)	Over/Under-vol(>I,<I)
Power supply 24 - 240 V AC/DC	I1-C : 2 - 20 mA AC/DC I2-C : 10 - 100 mA AC/DC I3-C : 50 - 500 mA AC/DC	MD7IV1	MD7IU1	MD7IW1	MD7IUV1
	I1-C : 0.15 - 1.5 A AC/DC I2-C : 0.5 - 5 A AC/DC I3-C : 1.5 - 15 A AC/DC	MD7IV2	MD7IU2	MD7IW2	MD7IUV2
Reference figure		⑤	⑥	⑦	⑧

	Mode / Monitoring range	Without memory, no delay		With or without memory, delay mode	
		Over-cur(>I)	Under-cur(<I)	Window mode (<I<)	Over/Under-vol(>I,<I)
Power supply 200 - 600 V AC	I1-C : 2 - 20 mA AC/DC I2-C : 10 - 100 mA AC/DC I3-C : 50 - 500 mA AC/DC	MD8IV1	MD8IU1	MD8IW1	MD8IUV1
	I1-C : 0.15 - 1.5 A AC/DC I2-C : 0.5 - 5 A AC/DC I3-C : 1.5 - 15 A AC/DC	MD8IV2	MD8IU2	MD8IW2	MD8IUV2
Reference figure		⑤	⑥	⑦	⑧







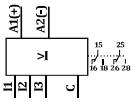


Reference figure:

⑤

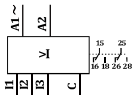
MD7IV1
MD7IV2

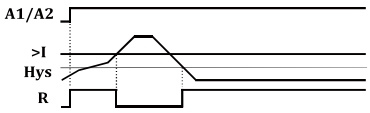
A1/A2: 24-240V AC/DC, 50/60Hz
⎓ 8A 250V AC



MD8IV1
MD8IV2

A1/A2: 200-600V AC, 50/60Hz
⎓ 8A 250V AC

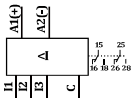




⑥

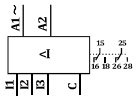
MD7IU1
MD7IU2

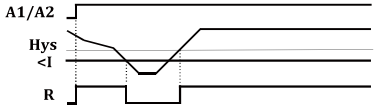
A1/A2: 24-240V AC/DC, 50/60Hz
⎓ 8A 250V AC



MD8IU1
MD8IU2

A1/A2: 200-600V AC, 50/60Hz
⎓ 8A 250V AC

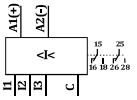




⑦

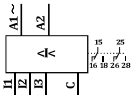
MD7IW1
MD7IW2

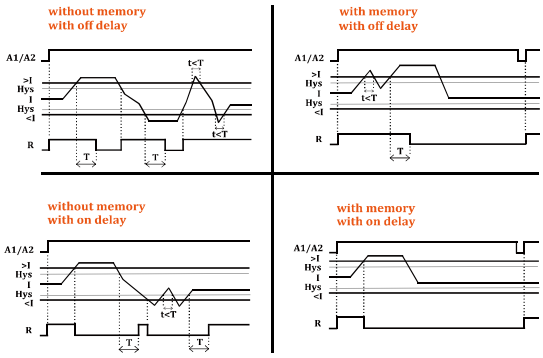
T: 0.1-30s
A1/A2: 24-240V AC/DC, 50/60Hz
⎓ 8A 250V AC



MD8IW1
MD8IW2

T: 0.1-30s
A1/A2: 200-600V AC, 50/60Hz
⎓ 8A 250V AC

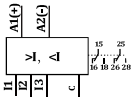




⑧

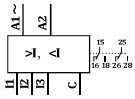
MD7IUV1
MD7IUV2

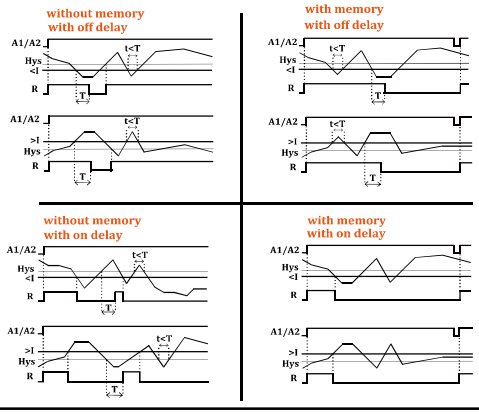
T: 0.1-30s
A1/A2: 24-240V AC/DC, 50/60Hz
⎓ 8A 250V AC



MD8IUV1
MD8IUV2

T: 0.1-30s
A1/A2: 200-600V AC, 50/60Hz
⎓ 8A 250V AC





SHANGHAI SIELAND ELECTRIC CO.,LTD
Address: Room 607 No.933 West Zhongshan Road, Shanghai, China
Tel: (+86)21-51113137
Mobile: (+86)18616396303
E-Mail: sales@sieland-electric.com

website
www.sieland-electric.com

SHANGHAI SIELAND ELECTRIC CO.,LTD