Voltage Monitoring Series SM 175



Cat. No.			MAG03D0424	MAG03D0425		MAG03D0426		MAG03D0427	
Parame	ters								
Supply Voltage (中)		: (中)	208 to 480 VAC (3P,3W) 120 to 277 VAC (3P,4W)	VAC (3P,3W) VAC (3P,4W) 415 VAC(3P,3W) / 240 VAC(3P,4W) 2				208-480 VAC(3P,3W)	
Supply Variation		n	+/- 23% (of中)						
Frequen	су		50/60 Hz						
Reference Voltage		age	Settable	Fixed		Fixed		Fixed	
Trip Settings	Phase Loss		Yes	Yes		Yes		Yes	
	Phas	e Reverse	Yes	Settable through DIP S/W		Settable through DIP S/W		NA	
	Phase Asymmetry		10% Fixed	10% Fixed		10% Fixed / 5% to 25% Settable		30% Fixed	
	Under Voltage		2% to 22% (Of中)	5% to 25% (of中) / 60% (of中) Fixed		5% to 25% (of中) / 80% (of中) Fixed		NA	
	Over Voltage		2% to 22% (of中)	110%(0t中) Fixed / 5% to 25%(of中) 1		110%(of中) Fixed		NA	
	Hysterisis (Phase Asy.)		2.7% Fixed				NA		
	Hysterisis (UV/OV)		2% Fixed	2% to 12% Settable 2.7% Fixed		NA			
Power C	onsun	nption (Max.)	16 VA @ 415 VAC						
Time Delay	ON D	elay	(0 to 15 Sec) settable	/ 5 sec (selectable DI	P switch)	(0.5 to 15	5) settable sec / min	<=750 msec	
	Trip T	ime (OFF Delay)	5 sec / (0 to 15 Sec) s	ettable (selectable DI	P switch)	(0.5 to 15	5) settable sec / min	<=500 msec	
	· ·		100ms max for Phase loss & Phase Sequence						
Output	Relay	Output	1 C/O						
	Contact Rating		5A @ 250 VAC / 30 VDC (Resistive)						
	Electrical Life		5X10 ⁴						
	Mech	anical Life	1X10 ⁷						
Utilization Category AC - 15		AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A						
		³ ⁷ DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A						
			Respective fault condition will be indicated by LED immediately & Relay will be tripped after specified trip time only.						
			Power LED/RV (Green)	UV (Red LED)	OV (R	ed LED)	ASY/PR (Red LED)		
		Power ON	ON	OFF	OFF		OFF		
Indicatio	ons	Phase reverse	ON	OFF	OFF		ON	R LED ON	
on front	plate	Asymmetry	ON	OFF	OFF		Slow BLINK	supply &	
		UV	ON	ON	OFF		OFF	OFF indicates	
		OV	ON	OFF	ON		OFF	Phase loss	
		B Phase Loss	Slow BLINK	OFF	OFF		OFF		
		Voltage Int.	OFF	OFF	OFF		OFF		
		* 1. Multiple LED faults may a 2. For cat id M 3. For Outer M	os can operate indicatir Iso occur. AG03D0428, R LED O Iode fault in MAG03D0	ng multiple faults at a t N indicates healthy su 425 product, UV and t	time e.g. ir upply & OF OV LED b	n case of p FF indicate links@200	ohase loss, UV and pl es Phase loss.) msec.	nase asymmetry	
Operating Temperature Storage Temperature		perature erature	- 20°C to +60°C - 25°C to +70°C						
Humidity (Non Condensing)		Condensing)	95% (Rh)						
Enclosure			Flame Retardant UL 94-V0						
Dimension (W x H x D) (in mm)		x H x D) (in mm)	18 X 90 X 66.5						
Weight (unpacked)		ked)	72 g						
Mounting			Base / DIN rail						
Degree of Protection		ection	IP 20 for Terminals, IP 30 for Enclosure						
Certification			CE Complant						

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 11
Radiated Emission	CISPR 11

Environmental Cold Heat

Dry Heat Vibration IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6

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Selection of Function: Operating Mode & timing can be selected by using DIP switches



Cat. No.: MAG03D0425

Cat. No.: MAG03D0424

1 Settable OFF Delay				
123		Ph - Ph (VAC)	Ph - N (VAC)	
1]	208	120	
]	220	127	
]	240	139	
]	380	220	
1]	400	230	
]	415	240	
1]	440	256	
1 0]	480	277	

4	Delay
1 0	Settable ON Delay Fix OFF Delay
o 💻	Fix ON Delay

5	Supply Type
1 0	Ph - N
1 0	Ph - Ph

Settable UV with fix OV 0 <u>o</u> [**•**] Settable OV with fix UV* Inner Mode Outer Mode Function 1 2 1 0 Phase Seq. Disable 1 0 Phase Seq. Enable 3 Function Settable OFF Delay 1 o 🔳 Fix ON Delay Settable ON Delay 1 0 Fix OFF Delay Delay 4 1 0 Ph - Ph 1 Ph - N 5 Supply Type * Note : When POT - P1 is set as UV or OV

Cat. No.: MAG03D0426



* Note : When POT - P1 is set as UV or OV through DIP S/W setting, then POT-P2 is used to set hysterisis ranging from 2% to 12%.

Cat. No.: MAG03D0425

Inner Mode: If user requires both UV and OV protection along with the healthy status of relay between UV and OV range then the user can set Inner mode configuration by selecting DIP switch 1 - high & 2 as low. For this setting P1 potentiometer will work as UV threshold and P2 potentiometer will work as OV threshold with fixed recovery hysteresis of 2% for both.

Outer Mode: If user requires both UV and OV protection along with the unhealthy status of relay between UV and OV range then the user can set outer configuration by selecting both DIP switches high. For this setting P1 potentiometer will work as UV threshold and P2 potentiometer will work as OV threshold with fixed recovery hysteresis of 2% for both.

CONNECTION DIAGRAM



MAG03D0424, MAG03D0425, MAG03D0426, MAG03D0427, MAG03D0428