

SIEMENS



Smart. Easy. Reliable.

Monitoring Relay 7UG0 and Timers 7PV0

7UG0 Monitoring Relays

Range:

- Line monitoring relays
- Voltage monitoring relays
- Residual current monitoring relays
- Current monitoring relays
- Earth fault monitoring relays

Relay	MLFB	Ø	Phase failure protection	Imbalance protection	Phase reversal protection	Under voltage protection	Over voltage protection	Under freq. protection	Over freq. protection	Earth leakage protection	Under Current protection	Over Current protection	Earth fault
Line monitoring relay	7UG0 712	3Ø 3W	✓	✓	✓								
	7UG0 818	3Ø 3W / 3Ø 4W	✓	✓	✓	✓	✓	✓	✓				
Voltage Monitoring relay	7UG0 753	3Ø 3W	✓		✓	✓	✓						
Current monitoring relay	7UG0 82	1Ø 2W	✓	✓							✓	✓	
	7UG0 83	1Ø 2W / 3Ø 3W / 3Ø 4W	✓	✓							✓	✓	
Earth leakage relay	7UG0 84	1Ø 2W / 3Ø 3W / 3Ø 4W								✓			
Earth fault monitoring relay New	7UG0 86	1Ø 2W / 3Ø 3W / 3Ø 4W											✓

Features:

- Monitoring of electrical parameters viz: Phase sequence, Phase imbalance, Phase Failure
- Protection from under / over current / voltage and unbalance / asymmetry
- LCD display for 35mm width product
- Din rail mounting
- Compact dimensions


Benefits:

- Wide sensing range leads to fewer variants – Optimized inventories
- Durable and maintenance free product
- DIN rail mounting – Quick & Easy Installation
- Entire range is covered in only two sizes giving uniformity and better aesthetics
- Reliable protection from voltage and leakage current
- RoHS compliant



Standards and approbations:

The 7UG0 range conforms to IEC 60947-4-1 & IEC 60947-5-1.

They also carry  mark

Applications:

The 7UG0 ranges of monitoring relays are suitable for variety of applications.

These relays can be used for monitoring of balanced and unbalanced supplies in AMF panels, PCCs, Distribution boards and for monitoring of individual Motors / Pumps.

They provide reliable protection of motors from hazards like single phasing; phase reversal and system unbalance. They also safeguard the machine / motor from the system stress viz: under and over voltages, residual current and earth fault etc.

These relays find application across Industries in wide range of machine and tools.



Air conditioning & compressors



Lifts
Passenger transport



Transportable systems



Automotive industry



Lighting control



Plastics processing machines



Building systems



Food & Beverages

Line monitoring relay:

Line monitoring relays are suitable for monitoring of incoming 3phase 3wire and 3phase 4wire supply. These relays are capable of monitoring Phase imbalance, Phase reversal, Phase failure and Frequency variations. The relays are independent of load and can be used for any ratings. They can be used in all the applications where the monitoring of mains supply is essential like AMF/Transfer switch panels, air conditioning control panels, Pump control panels, lifts / hoists control panels etc.

Voltage monitoring relay:

Voltage monitoring relays are suitable for monitoring of balanced or unbalanced 3phase 3wire supplies. These relays find applications where, even a dip or a long surge in the system is harmful and can damage the equipment associated to it. These relays can be used in all electrical systems for e.g. loads powered by Generators, UPS, stabilizers, Inverters or by Electricity boards; in AMF panels, PCCs, MCCs & for monitoring of individual loads/motors/ pumps etc.

Earth leakage relay / Earth fault monitoring relay:

These relays are used to protect electrical system from fire and other electrical hazards. The unit consists of two parts: Basic relay & core balance current transformer (CBCT). This CBCT is used to sense the leakage / fault current of the electrical System. The secondary of the CBCT is wired to the basic relay. If earth leakage / fault current exceeds than the set value, the electromagnetic relay is energized which can be used for tripping MCCB / OCB / ACB or any other device.

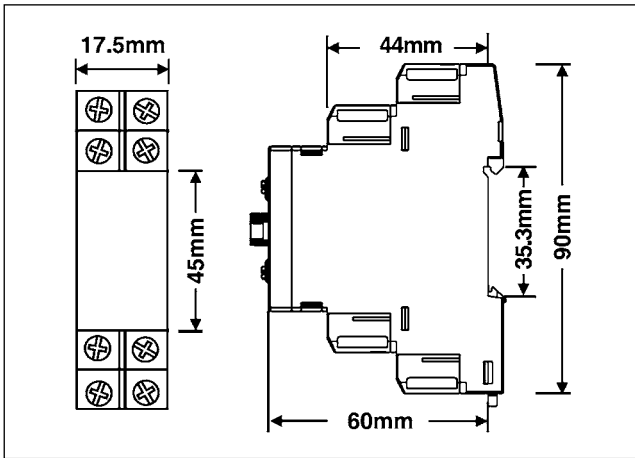
Current monitoring relay:

Current monitoring relays are suitable for monitoring of balanced or unbalanced 3phase and single phase loads. These relays find applications where the load fluctuations are frequent and if not acted upon at appropriate time can damage the equipment associated to it. These relays can be used in all electrical systems for e.g. loads powered by Generators, Pumps, Conveyors, AMF panels & for monitoring of individual loads/motors etc.

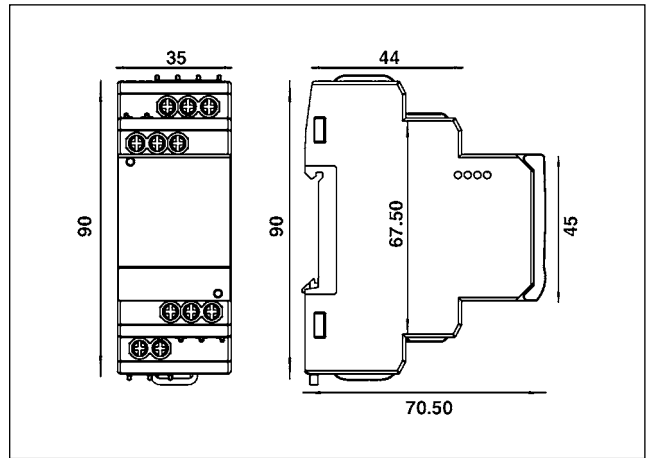


Dimensional drawings: Monitoring relays

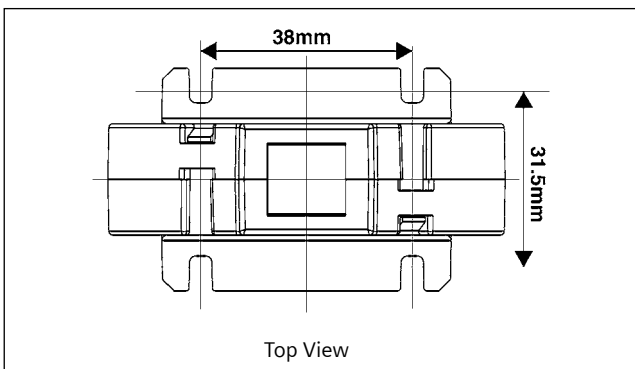
7UG0 7...



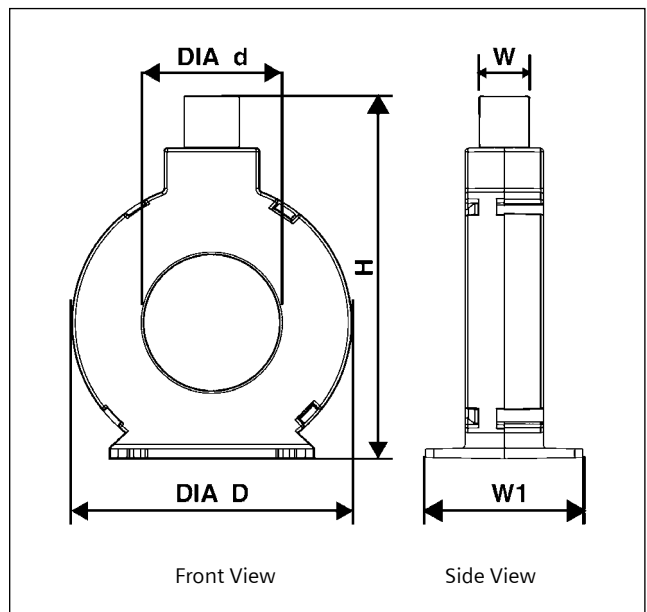
7UG0 8...



7UG0 9... (ELR CBCT)



CBCT TYPE	Dimensions (mm)				
	D	d	H	W	W1
7UG0996	70	35	96	10	40
7UG0997	107	70	131	10	40
7UG0999	157	120	184	10	40
STD.TOL.	2 - 3	5 - 6	-	1.5 - 2	-



7UG0 9... (EFR CBCT)

Product	Dimensions (mm)								
	A	B	C	D	E	F	G	H	M
7UG09910	100	25	156	84	100	28	184	170	30
7UG09911	140	35	201	98	114	28	230	215	32
7UG09912			236	93	109	28	264	250	30
7UG09915	220	50	276	112	128	28	305	290	32

