MULTIFUNCTION ZERO SEQUENCE OVERCURRENT EARTH FAULT / SENSITIVE EARTH FAULT RELAY

MC0A

MC02-R2

LINE MC

50N/51N, 51BF, 68, 74

- Four Earth-fault elements
- Time current curves selectable according to IEC/IEEE standards
- Blocking Output and Blocking Input for pilot wire selectivity coordination
- Breaker Failure protection
- Time tagged multiple event recording
- Oscillographic wave form capture
- Modbus RTU / IEC870-5-103 Communication Protocols
- Display LCD 16 (2x8) characters

Earth fault relay with programmable time-current curves suitable for protection of power distribution systems with insulated, resistance earthed or compensated neutral.

Rated input current selectable 1A or 5A, 50/60 Hz.

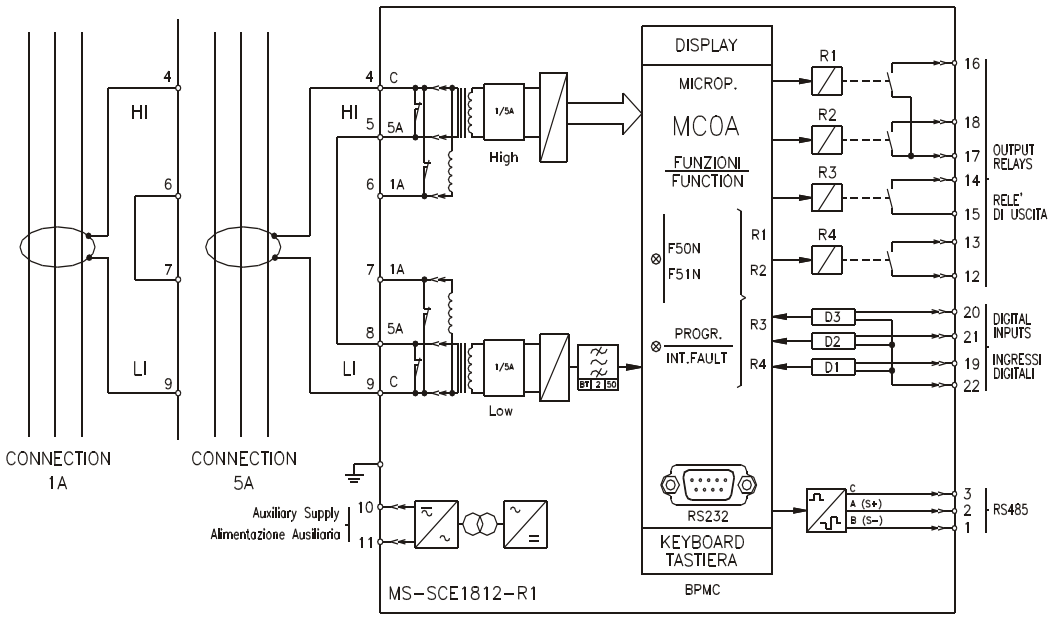
3rd harmonic filter on the neutral input current.

Real Time Measurements = HI - LI
Maximum Demand and Inrush Recording = HI - LI

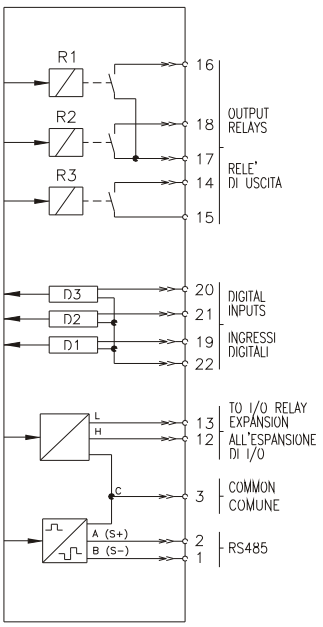
Programmable Input Quantities

Fn	= System frequency	: (50 - 60) Hz
HI	= Rated primary current of the CTs	: (1 - 9999)A, step 1A
LI	= Rated primary current of the CTs	: (1 - 9999)A, step 1A

Connection Diagram



MS-SCE1812-R1
Standard Output



MS-SCE1840-R1
I/O Output

1F - F50N/51N (1I): First Low-set Earth Fault Element

- Function enabling : **Enable/Disable**
- Current setting range : **1I = (0.01 ¸ 2.00)LI**, step 0.01LI
- Instantaneous output : £ **0.04s**
- Time current curves : Indep.Definite Time **(D), IEC (A / B / C), IEEE (MI / VI / I / EI / SI)**
- Definite trip time delay (10x[I>] in inverse time operation modes) : **t1I = (0.05 - 60.00)s**, step 0.01s

2F - F50N/51N (2I): Second Low-set Overcurrent Element

- Function enabling : **Enable/Disable**
- Current setting range : **2I = (0.02 ¸ 4.00)LI**, step 0.01LI
- Definite trip time delay : **t1I = (0.05 ¸ 60.00)s**, step 0.01s
- Instantaneous output : £ **0.04s**

1F - F50N/51N (3I): First High-set Earth Fault Element

- Function enabling : **Enable/Disable**
- Current setting range : **3I = (0.1 ¸ 10.00)HI**, step 0.01HI
- Definite trip time delay : **t3I = (0.01 ¸ 60.00)s**, step 0.01s
- Instantaneous output : £ **0.03s**

2F - F50N/51N (4I): Second High-set Overcurrent Element

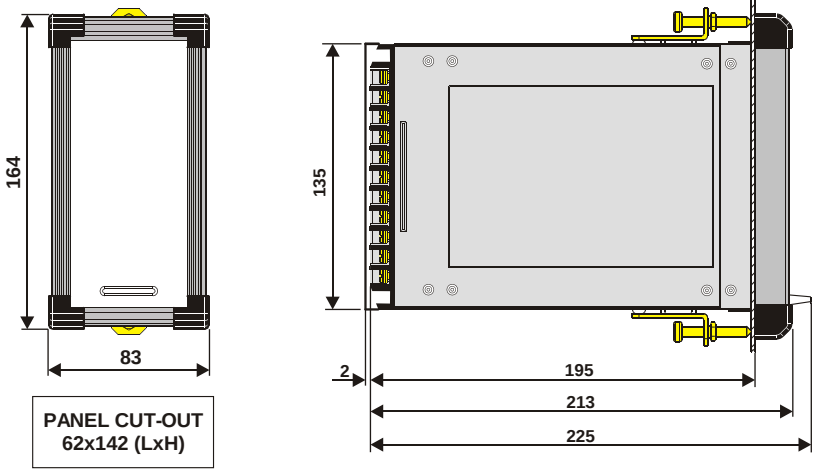
- Function enabling : **Enable/Disable**
- Current setting range : **4I = (0.1 ¸ 10.00)HI**, step 0.01HI
- Definite trip time delay : **t4I = (0.01 ¸ 60.00)s**, step 0.01s
- Instantaneous output : £ **0.03s**

Breaker Failure Element

- Trip time delay : **tBF = (0.05 - 0.75)s**, step 0.01s

OVERALL DIMENSIONS

PROTECTION DEGREE IP44
(IP54 on request)



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