

Annexure to PI 240770082 Rev00

Metrosil resistor assembly for the protection of Thyristor Bridge against over voltages and surges caused by supply interruption, pole slip, etc. to the following specifications:

ITEM-1

Quantity	5nos.
Rated output	938A, 105V DC
Max. AC input to the bridge	155V±10%, 3-phase, 50Hz AC
Field forcing	1.6 times for 10s
Field resistance	0.1166Ω at 125°C
Field Forcing Frequency	2-3 times daily
Energy Dissipation	413223 joule

ITEM-2

Quantity	2nos.
Rated output	950A, 232V DC
Max. AC input to the bridge	370V±10%, 3- phase, 50Hz AC
Field forcing	1.6 times for 10s
Field resistance	0.2442 Ω at 125°C
Field Forcing Frequency	2-3 times daily
Energy Dissipation	1063735 joule

Common Specifications for the above items:

Location	across the output of the Thyristor Bridge permanently connected
Type of Thyristor Bridge	three phase fully controlled
PIV of thyristors	1600V for ITEM1 and 2600V for ITEM2.
Interruption of supply	2-3 times per day
Ambient	45°C
Humidity	>76.6%
Altitude	55 meters above sea level
Limiting dimension	The total width of the assembly is to be limited to 740mm hence the number of dics per assembly shall be decided accordingly.
Application	Protection of thyristor bridge from surges by limiting the voltage to less than the thyristor PIV level during both normal operating conditions & field forcing conditions

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Packing

Individual assemblies to be protected in suitable enclosure to avoid transit damage. Supplier to ensure provision of transparent viewing window to avoid opening of packing during custom clearance

NOTES TO THE SUPPLIER

- 2 copies of technical literature and dimensional drawings are to be furnished in advance alongwith the offer.
- 2 copies of test certificates shall be furnished alongwith the consignment.

Prepared By,

Approved By,

(Pramod Kumar Meher)

(Ajay Dhote)