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1 GENERAL DESCRIPTION

This technical specification defines the general characteristic for the supply of the medium voltage switchgear to be installed on EOT crane placed in a steel making plant.

The switchgear will be installed on a dedicated and conditioned electrical room.

2 REFERENCE STANDARDS

For the above-mentioned scope, the following standards must be applied:

- Design ratings IEC
- Measuring system Metric
- Construction and documentation IEC

3 SWITCHGEAR DATA

3.1 GENERAL DATA:

- Supplier name: [Schneider](#)
- Supplier reference model: [GAM2+DM1A_SF1](#)

3.2 ELECTRICAL DATA:

- Nominal Voltage: [12 kV](#)
- Nominal voltage for 1minute at 50Hz: [28kV](#)
- Nominal voltage for atmospheric pulse 1,2/50 ms peak: [75kV](#)
- Working Voltage: [6,6kV](#)
- Nominal frequency: [50/60Hz](#)
- Number of phases: [3](#)
- Nominal busbar current: [630A](#)
- Max derivations current: [630A](#)
- Short time admissible current: [20kA](#)
- Peak current: [50kA](#)
- Circuit breaker short circuit interruption power at nominal voltage: [20kA](#)
- Nominal short circuit time: [1s](#)

3.3 ELECTRICAL SWITCHGEAR GAM2 COMPOSITION:

- N°1 GAM2 12kV-20kA-630A simple unit feeding line
- N°1 IAC AFL 12,5kA 1s
- N°1 capacitive derivation with presence voltage lamps Us from 5 to 9 kV
- N°1 lower tray for unit width 375mm

3.4 ELECTRICAL SWITCHGEAR DM1A_SF1 COMPOSITION:

- N°1 DM1A SF1 12kV-20kA-630A simple unit with TA
- N°1 IAC AFL 12,5kA 1s
- N°3 LPCT type TLP130 from 5 to 1250A Rapp I 100A = Vsecond. 22,5mV per SM6
- N°1 capacitive derivation with presence voltage lamps Us from 5 to 9 kV
- N°1 manual command type RI
- N°1 standard cycle operation breaker (O-03mn-CO-3mn-CO)
- N°1 opening tripper coil 220-230Vac
- N°1 manual command type CS1
- N°1 key lock on earth selector with free key in closed position
- N°1 key lock on earth selector with free key in open position
- N°1 key lock on disconnection with free key in open position
- N°1 key lock on disconnection with free key in closed position for circuit breaker
- N°1 low voltage panel for SEPAM1000
- N°1 aux circuit's circuit breaker
- N°1 SEPAM1000 voltage supply 110/240 Vac
- N°1 SEPAM S20E CEI 0-16 with visor and board CCA670 for LPCT
- N°1 homopolar transformer closed type CSH 120 Diam:120mm

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3.5 INCLUDED OPTION:

- Switching handles
- Closing panels
- Transformation kit for double cables exit, included fixing accessories and lower closing plates for GAM-2.

3.6 MECHANICAL DATA:

- Overall max length dimensions: **1.168mm**
- Overall max height dimensions: **1.690mm**
- Overall max depth dimensions: **1.220mm**

3.7 APPROXIMATE DISPOSITION DRAWING:

