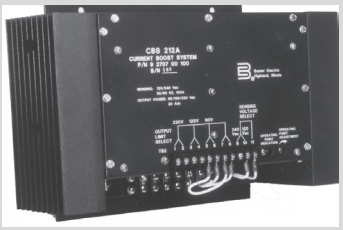
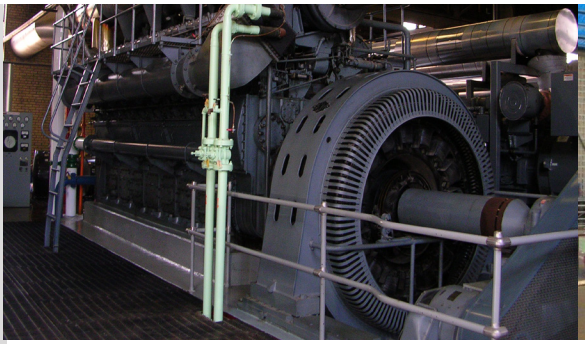
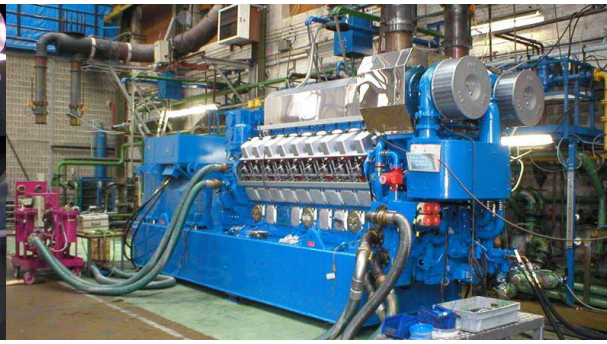
CBS 212A Current Boost System







Overview

The CBS 212A provides excitation support to the generator during motor start scenarios and faults on the generator lines. This device utilizes power current transformers located in the generator's output leads that provides excitation current to the field and supplies boost to the system for motor starting and fault clearing.

Features

- Instantaneous response to short circuits
- Up to 20 A field boost power for 10 seconds
- Activated when generator voltage drops too low to maintain field current
- For 50 or 60 Hertz brushless generators
- Covers a wide range of generator applications
- Adjustable forcing voltage limit

Benefits

- Instantaneous response by applying required excitation support, maintaining the overall stability of the power system.
- Eliminates the need for expensive PMG and alternate systems that provide fault-clearing or motor-starting current.
- Easy to install and configure, reducing commissioning time.

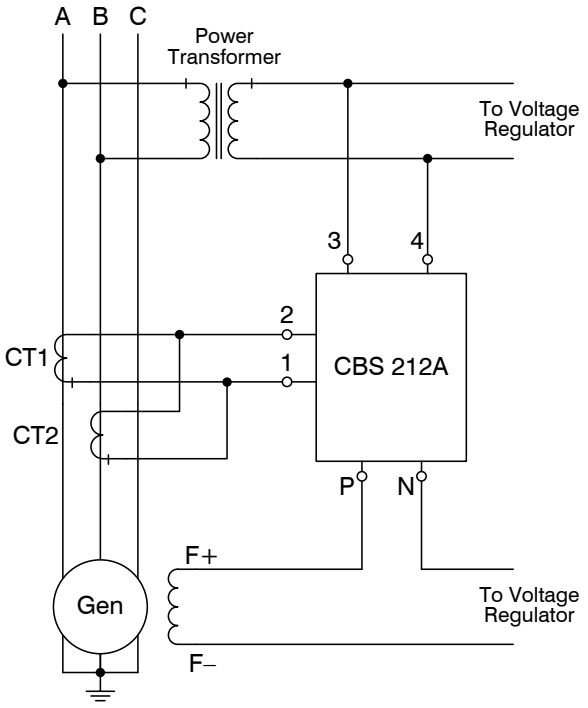


Figure 1 - CBS 212A Connection Diagram for a Typical Application

CBS 212A Current Boost System

Specifications

Output Power
Voltage: 60/120/220 Vdc (jumper selectable)
Current: 20 Adc

Voltage Sensing
Nominal: 120/240 Vac (jumper selectable)
Frequency: 50/60 Hz nominal
Voltamperes: 10 VA

Output Limiting
Selection: 60/120/220 Vdc (jumper selectable)
Range: 50 to 100% of selected output

Operation Point Adjustment Range
120 V Sensing: 70 to 131 Vac
240 V Sensing: 140 to 262 Vac

Dropout Ratio
120 V Sensing: 5 V above pickup
240 V Sensing: 10 V above pickup

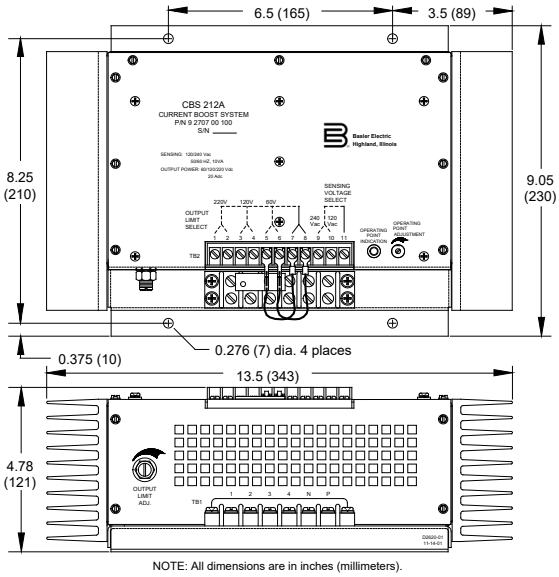
Power Dissipation
<50 W at continuous rating

Agency/Certification
China RoHS compliant

Environmental
Operating Temp: -40°C to 60°C (-40°F to 140°F)
Storage Temp: -65°C to 85°C (-85°F to 185°F)
Shock: 15 G in three perpendicular planes
Vibration:
5 to 26 Hz: 1.2 G
26 to 52 Hz: 0.036" double amplitude
52 to 260 Hz: 5 G

Physical
Weight: 15 lb (6.8 kg)
Dimensions (WxHxD):
13.50 x 9.05 x 4.78 inches
(343 x 230 x 121 mm)

For complete specifications, download the instruction manual at www.basler.com.



NOTE: All dimensions are in inches (millimeters).

CT Part Number	Turns Ratio	3-Phase Short-Circuit Line Current *	Compatible System Voltage
BE25925001 †	1:8	125 to 250 A	600 V or less
BE25926001 †	1:17	250 to 500 A	600 V or less
BE25927001 †	1:34	500 to 1,000 A	600 V or less
BE25928001	1:69	1,000 to 2,000 A	600 V or less
BE25929001	1:138	2,000 to 4,000 A	600 V or less
BE25930001	1:277	4,000 to 8,000 A	600 V or less
BE34704001 †	1:8	125 to 250 A	15 kV or less
BE34705001 †	1:17	250 to 500 A	15 kV or less
BE34706001 †	1:34	500 to 1,000 A	15 kV or less
BE34707001	1:69	1,000 to 2,000 A	15 kV or less
BE34708001	1:138	2,000 to 4,000 A	15 kV or less
BE34709001	1:277	4,000 to 8,000 A	15 kV or less

Two current transformers are required for use with each CBS 212A.
* All current values represent 300% short-circuit values.
† These CTs have pre-wound primary windings (no conductor window).

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