New low voltage synchronous generators for diesel and gas engines

ABB introduces new generator-series AMG

Hanover, April 20th 2009 – This year’s Hannover Messe will see the introduction of a new range of low voltage synchronous generators from ABB. Rated up to 1’450 kVA at 50 Hz, the new AMG generators offer excellent reliability and ease of use in a wide range of applications.

The new AMG generators can be used with diesel or gas engines and are ideal for supplying continuous, standby or emergency power for residential buildings, commercial premises, hospitals, schools, telecommunication facilities, industrial sites, mines and many other applications. The rated output is from 14 to 1’450 kVA at 1’500 RPM / 50 Hz and 17 to 1’750 kVA at 1’800 RPM / 60 Hz. The generators come in frame sizes 180 - 400.

From the outset the generators have been designed for robust, reliable operation. All critical parts have been thoroughly analyzed using advanced FEM tools. ABB’s expertise in handling vibrations and mechanical stresses in diesel engine driven systems has resulted in generators that can operate reliably at both 50 Hz and 60 Hz, and will withstand up to 25 percent over speed in line with relevant IEC / NEMA standards.

All the generators in the range are equipped with an auxiliary winding excitation supply, which ensures sufficient short circuit current capability for reliable operation of protective devices. The generators also feature permanent magnet insertion in the exciter machine which, together with ABB’s new AVR (automatic voltage regulator), ensures easy, fast and reliable start up – even after long periods of storage or standby.

Other features include the 12-wire connection terminal box (up to frame size 355) and 2/3 winding pitch design, giving users additional flexibility in the choice of different star and delta connections. Single phase operation is also available in some models. Based on ABB’s generator know-how and experience, the new electrical design provides the best possible power quality with low harmonic content in both line-to-line and phase load applications.

The new low voltage synchronous products are a valuable addition to ABB’s broad range of generators.
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For more information please contact:

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