

PRESS RELEASE

Date: 5th Nov 2013

IXYS UK Westcode introduces three new optimised higher current 1.8kV phase control thyristors



IXYS UK Westcode Ltd. introduces three new 1.8kV pressure contact phase control thyristors with increased power density. The new improved designs offer more than 40% increase in average current rating over the established designs, while retaining the overall package footprint.

The improvement in performance is achieved by maximising the die size and an improved package design. The new silicon die are alloyed to a metal disc and encapsulated in fully hermetic ceramic packages. Overall the new mechanical designs have reduced thermal resistance and the dies have enhanced electrical performance.

The new 56mm die device has average current rating of 2600A and the package has a 50mm electrode contact diameter, with an industry standard overall diameter of 74mm. The new 69mm die device has average current rating of 3175A to 3565A and the package has a 66mm electrode contact diameter, with an industry standard overall diameter of 101.5mm. These device options are within the mid-range current rating of IXYS UK's product portfolio and have the highest ever power density offered in these footprints. The larger die sizes offer our customers the best performance and value for money and continue the IXYS strategy to supply products with more power and less package. Higher currents in smaller packages allow our customers to also optimise their designs to use less material and so save cost as well as reduce impact on the environment.

The 56mm die device is available in an industry standard 26mm thick package and two voltage grades. Designations are: N2600MC160 (V_{drm}/V_{rrm} 1600V), N2600MC180 (V_{drm}/V_{rrm} 1800V). The 69mm die device is available in two industry standard package thicknesses, 26mm and 35mm, plus two voltage grades. Designations are: 26mm thick package N3565HA160 (V_{drm}/V_{rrm} 1600V), N3565HA180 (V_{drm}/V_{rrm} 1800V) and 35mm thick package N3175HE160 (V_{drm}/V_{rrm} 1600V), N3175HE180 (V_{drm}/V_{rrm} 1800V).

Typical applications include soft starters, DC drives, and all controlled rectifier applications requiring devices in this power rating.

For more information please go to the IXYS UK website at www.ixysuk.com or please contact us at (email: sales@ixysuk.com) or telephone: +44 (0)1249 444524 for quotation.

Author: F J Wakeman – Marketing & Technical Support Manager
Company: IXYS UK Westcode Ltd, Langley Park Way, Langley Park, Chippenham, Wiltshire SN15 1GE England UK
Contact Details: Tel: +44 (0)1249 444524
Fax: +44 (0)1249 659448
Email: f.wakeman@ixys.net