

# PRESS RELEASE

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## ***IXYS UK announces extended rating for 40mm die phase control thyristors***



IXYS UK Westcode announced today the improved performance of two recently launched 40mm die pressure contact phase control thyristors, with voltage ratings of 1800V & 1400V respectively.

Following an extensive performance related evaluation program, IXYS UK has been able to re-evaluate the ratings of its recently introduced 40mm die phase control thyristors. This evaluation process has confirmed a lower thermal resistance and higher maximum junction temperature, which reflects in the device rating as higher average current ratings. Average current for the 1400V part increases from 1140A to 1315A and for the 1800V part the current rating extends from 1075A to 1240A. The improved ratings represent a 15% increase in the average current and therefore power handling of the new parts, further extending the advantages of these new introductions over our older designs.

The design of the devices has not changed from the original November 2013 launch which included a new silicon die with advanced thermal bonding to a metal disc and encapsulated in a rugged hermetic ceramic packages. The new improved package design has fewer material interfaces and a much improved gate contact, with reduced thermal resistance and enhanced electrical performance. The devices, which have 34mm electrode diameter, 58mm overall diameter and 26mm package height comply with the Jedec TO200AB outline.

The improved performances of these devices will further encourage the replacement of the older designs in the same mechanical footprint, which are in the process of being phased out as customers take advantage of these improved products.

Designations for the two devices remain unchanged: N1075LN180 (V<sub>drm</sub>/V<sub>rrm</sub> 1800 Volts & I<sub>tav</sub> 1240A) and N1140LN140 (V<sub>drm</sub>/V<sub>rrm</sub> 1400 Volts & I<sub>tav</sub> 1315A).

Typical applications include soft starters, DC drives, and all controlled rectifier applications which require the higher reliability of a press-pack at these current and voltage ratings.

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

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