

# Certificate of Compliance RoHS 3

This is to certify that products offered by **Pioneer / Jefferson Electric / Bemag Transformers** comply with the Reduction of Hazardous Substances (RoHS) directives. **Directive 2002/95/EC** became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. **Directive 2015/863/EU** amending **Annex II to Directive 2011/65/EU** announced plans to add four substances from 22 July 2019. This directive restricts the acceptable levels of the following ten substances:

<b>Substance</b>	<b>Symbol</b>	<b>Acceptable Concentration</b>
Lead	Pb	<1000 ppm
Cadmium	Cd	<100 ppm
Mercury	Hg	<1000 ppm
Haxavalent Chromium	Cr[VI]	<1000 ppm
Polybrominated Biphenyls	PBB	<1000 ppm
Polybrominated Diphenyl Ethers including Deca-BDE	PBDE	<1000 ppm
Bis(2-Ethylhexyl) phthalate	DEHP	<1000 ppm
Benzyl butyl phthalate	BBP	<1000 ppm
Dibutyl phthalate	DBP	<1000 ppm
Diisobutyl phthalate	DIBP	<1000 ppm

We hereby certify that the equipment specified below conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Description of component: **Power Transformer, Encapsulated, NEMA 3R, Single and Three Phase**

Model Number(s): Prefix 411, 413, 414, 415, 416, 511, 513, 515, and 516 followed by a four (4) place number/letter, followed by a three (3) place number/letter:

<b>411-XXXX-XXX</b>	<b>413-XXXX-XXX</b>
<b>414-XXXX-XXX</b>	<b>415-XXXX-XXX</b>
<b>416-XXXX-XXX</b>	
<b>511-XXXX-XXX</b>	<b>513-XXXX-XXX</b>
<b>515-XXXX-XXX</b>	<b>516-XXXX-XXX</b>

Authorized Representative:



Eric Jaeger  
Engineering Manager  
14 June 2019

