



*Tecumseh*

# POLICY BULLETIN

**SUBJECT: Compressor Voltage Range**

**PB-113**

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**REV. DATE: 26 August 2019**

In order that Tecumseh hermetic compressors have the starting, operating and dependability characteristics required of them, the compressor and its protective devices are designed for operation within a very specific minimum and maximum voltage range. This voltage range is defined in the following table:

Voltage Shown on Compressor Nameplate	Voltage Code	Voltage Range
115/60/1 100/50/1	XA	103 - 127 90 - 110
115/60/1	AA	103 - 127
115/60/1 90/50/1	AB	103 - 127 81 - 99
100/60/1 100/50/1	XU	90 - 110 90 - 110
115-127/60/1 100/50/1	AG	90 - 140 90 - 110
230/60/1 200/50/1	XB	207 - 254 180 - 220
220-240/50/1	XC	264 - 198
160-260/50/1	CF	144 - 286
208-230/60/1 200/50/1	XD	197*- 254 180 - 220
208-230/60/1 220-240/50/1	DA	187 - 254 198 - 264
208-230/60/1 200-220/50/1	XN	197*- 254 180 - 242
208-230/60/1	NA	187 - 254

Voltage Shown on Compressor Nameplate	Voltage Code	Voltage Range
220/60/1 200/50/1	XP	198 - 242 180 - 220
265/60/1	XV	292 - 239
265/60/1 220-240/50/1	VA	239 - 292 198 - 264
208-230/60/3 200-240/50/3	XF	254 - 187 264 - 180
200-230/60/3 200-220/50/3	XT	254 - 180 242 - 180
380/60/3	XW	420 - 340
460/60/3 380-420/50/3	XG	506 - 396 462 - 342
575/60/3	HA	633 - 518
575/60/3 480-500/50/3	XH	633 - 518 572 - 432
100-115/60/1 100/50/1	AC	90 - 127 90 - 110
115-127/60/1	DS	100-140
220/60/1 220/50/1	GS	187-242 180-242

If a Tecumseh hermetic compressor application is likely to experience voltages lower or higher than those indicated in the preceding table, then provision for simultaneously sensing voltages outside the designated range and breaking the branch circuit to the compressor must be added so the life of the compressor will not be compromised.

This supplementary protection must be provided by others, such as, but not limited to, the Original Equipment Manufacturer, local power company, contractor, building operators or owners.

\* Exception - Dual voltage, 60 Hz., single phase commercial and refrigeration compressors have voltage range of 254 - 187.