| Hammond Power Solutions Hammond Power Solutions Hammond Fill 595 Southgate Drive Guelph, Ontario, N1G 3W6 Tel. 519 822 2441 | | | | | | | | | lssued 2015-08-21 Rev. 2: 2016-03-28 | | No content | | | |
|--|-------------------------|-------|-----------|--------|----------|--------|----------|---|---|--------|------------|--------|--------|--------|
| Typical Performance @ 75 ⁰ C of LVDT Transformers, Model Sentinel G, 480V Delta - 208 Wye/120V, 60 Hz, Copper Windings | | | | | | | | | | | | | | |
| Meets DOE 10 CFR Part 431 - 2016 Energy Efficiency Regulation for LVDT Transformers | | | | | | | | | | | | | | |
| | No Load Load Regulation | | | | | | | % Efficiency at different % of rated load | | | | | | |
| kVA | Loss | Loss | Impedance | at 35° | % load | at 100 | % load | 78 Enciency at unreferit 78 of rated load | | | | | | |
| | Watts | Watts | | pf = 1 | pf = 0.8 | pf = 1 | pf = 0.8 | 15% | 25% | 35% | 50% | 65% | 75% | 100% |
| 15 | 64 | 400 | 3.9% | 0.93% | 1.10% | 2.68% | 3.15% | 96.86% | 97.68% | 97.89% | 97.86% | 97.67% | 97.50% | 97.00% |
| 30 | 96 | 760 | 4.0% | 0.89% | 1.17% | 2.57% | 3.35% | 97.56% | 98.13% | 98.23% | 98.13% | 97.90% | 97.72% | 97.22% |
| 45 | 135 | 990 | 3.7% | 0.77% | 1.12% | 2.22% | 3.20% | 97.72% | 98.28% | 98.40% | 98.33% | 98.15% | 98.00% | 97.57% |
| 75 | 194 | 1470 | 3.5% | 0.69% | 1.05% | 1.98% | 3.02% | 98.02% | 98.50% | 98.60% | 98.53% | 98.36% | 98.22% | 97.84% |
| 112.5 | 275 | 1850 | 3.5% | 0.58% | 1.04% | 1.68% | 2.97% | 98.16% | 98.63% | 98.74% | 98.70% | 98.57% | 98.46% | 98.14% |
| 150 | 335 | 2330 | 3.8% | 0.55% | 1.12% | 1.61% | 3.21% | 98.31% | 98.73% | 98.83% | 98.79% | 98.66% | 98.56% | 98.25% |
| 225 | 440 | 3300 | 3.8% | 0.52% | 1.11% | 1.52% | 3.18% | 98.50% | 98.86% | 98.94% | 98.89% | 98.76% | 98.66% | 98.36% |
| 300 | 560 | 3930 | 4.0% | 0.47% | 1.14% | 1.38% | 3.26% | 98.58% | 98.94% | 99.02% | 98.98% | 98.87% | 98.78% | 98.53% |
| 500 | 808 | 5860 | 4.5% | 0.42% | 1.23% | 1.26% | 3.53% | 98.76% | 99.07% | 99.14% | 99.10% | 99.00% | 98.92% | 98.68% |
| 750 | 980 | 8710 | 5.2% | 0.42% | 1.37% | 1.28% | 3.96% | 98.97% | 99.19% | 99.23% | 99.16% | 99.05% | 98.97% | 98.72% |
| 1000 | 1250 | 10400 | 5.2% | 0.38% | 1.36% | 1.16% | 3.91% | 99.02% | 99.25% | 99.28% | 99.24% | 99.14% | 99.07% | 98.86% |



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Typical Performance @ 75⁰ C of LVDT Transformers, Model Sentinel G, 480V Delta - 208 Wye/120V, 60 Hz, Aluminum Windings Meets DOE 10 CFR Part 431 - 2016 Energy Efficiency Regulation for LVDT Transformers

| | No Load | Load | | Regulation | | | | % Efficiency at different % of rated load | | | | | | |
|-------|---------|-------|-----------|-------------|----------|--------------|----------|---|--------|--------|--------|--------|--------|--------|
| kVA | Loss | Loss | Impedance | at 35% load | | at 100% load | | % Eniciency at unrerent % of rated load | | | | | | |
| | Watts | Watts | | pf = 1 | pf = 0.8 | pf = 1 | pf = 0.8 | 15% | 25% | 35% | 50% | 65% | 75% | 100% |
| 15 | 62 | 420 | 4.0% | 0.98% | 1.12% | 2.81% | 3.21% | 96.92% | 97.70% | 97.89% | 97.82% | 97.61% | 97.42% | 96.89% |
| 30 | 86 | 840 | 4.1% | 0.98% | 1.19% | 2.82% | 3.40% | 97.72% | 98.19% | 98.23% | 98.06% | 97.79% | 97.58% | 97.00% |
| 45 | 120 | 1110 | 4.5% | 0.87% | 1.36% | 2.51% | 3.89% | 97.90% | 98.35% | 98.40% | 98.27% | 98.03% | 97.84% | 97.34% |
| 75 | 190 | 1490 | 5.0% | 0.71% | 1.46% | 2.08% | 4.18% | 98.05% | 98.51% | 98.60% | 98.52% | 98.35% | 98.20% | 97.81% |
| 112.5 | 226 | 2260 | 5.0% | 0.71% | 1.46% | 2.10% | 4.18% | 98.38% | 98.71% | 98.74% | 98.61% | 98.41% | 98.26% | 97.84% |
| 150 | 315 | 2500 | 5.0% | 0.60% | 1.42% | 1.77% | 4.07% | 98.38% | 98.76% | 98.83% | 98.76% | 98.61% | 98.49% | 98.16% |
| 225 | 405 | 3580 | 5.4% | 0.57% | 1.51% | 1.72% | 4.33% | 98.58% | 98.89% | 98.94% | 98.86% | 98.70% | 98.59% | 98.26% |
| 300 | 540 | 4040 | 4.8% | 0.48% | 1.32% | 1.45% | 3.79% | 98.62% | 98.95% | 99.02% | 98.98% | 98.86% | 98.77% | 98.50% |
| 500 | 840 | 5590 | 5.2% | 0.41% | 1.37% | 1.24% | 3.95% | 98.73% | 99.06% | 99.14% | 99.11% | 99.02% | 98.95% | 98.73% |
| 750 | 1020 | 8370 | 5.8% | 0.41% | 1.50% | 1.27% | 4.35% | 98.94% | 99.18% | 99.23% | 99.18% | 99.07% | 98.99% | 98.76% |
| 1000 | 1180 | 11180 | 5.8% | 0.41% | 1.50% | 1.28% | 4.35% | 99.05% | 99.25% | 99.28% | 99.21% | 99.10% | 99.01% | 98.78% |

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|--|--|----------------|--|--|--|--|--|--|--|--|
| Typical Impedance & Inrush Current Range for LVDT Transformers | | | | | | | | | | |
| Model Sentinel G, Aluminum or Copper Windings, 80 to150° C Rise | | | | | | | | | | |
| Primary Delta & Secondary Wye connected, V _{line} Range 208 to 600V | | | | | | | | | | |
| Meets DOE 10 CFR Part 431 - 2016 Energy Efficiency Regulation for LVDT | | | | | | | | | | |
| | | | | | | | | | | |
| kVA | Efficiency at 35% of Rated Load, @ 75 ⁰ C | Impedance | Peak Inrush Current Multiple of RMS current | | | | | | | |
| 15 | 97.89% | | | | | | | | | |
| 30 | 98.23% | 1.8 - 6% | 12 to 15 | | | | | | | |
| 45 | 98.40% | | | | | | | | | |
| 75 | 98.60% | | | | | | | | | |
| 112.5 | 98.74% | | | | | | | | | |
| 150 | 98.83% | 2 - 6% | 10 to 12 | | | | | | | |
| 225 | 98.94% | | | | | | | | | |
| 300 | 99.02% | | | | | | | | | |
| 500 | <u>99.14%</u> | 4 - 6% | 8 to 10 | | | | | | | |
| 750 | 99.23% | 4.5 - 6.5% | 8 to 10 | | | | | | | |
| 1000 | 99.28% | 4.5 - 0.5% | | | | | | | | |