



Your CONDUIT to Performance.™

400Hz Distribution & Control Line Drop Compensators

- Easy to install
- Easy to maintain
- Only 18 (458) inches high
- Stack up to five units
- Underwriters Labs listing on most units

Introduction

The PAGE Line Drop Compensator has been designed to efficiently and automatically correct transmission line power factor.

This equipment is nominally applied anywhere between the 400 Hz power source and the load. The product line includes Line Drop Compensators with system kVA ratings from 60 to 140 and system voltage ratings from 115/200 to 960.

Most of the equipment offered for use in the U.S. is listed by **Underwriters Laboratories, Inc.**

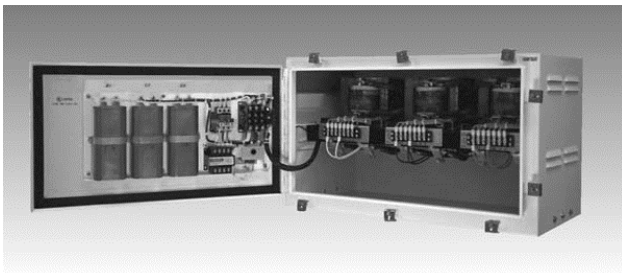
These Line Drop Compensators continuously monitor current and automatically add the proper level of capacitive reactance to the transmission line. This causes the transmission line impedance to be reduced, improving transmission line efficiency. The improvement continues up to the maximum kVA rating of the Line Drop Compensator or to the high limit set by the systems engineer.

With the improved transmission characteristics, phase voltages remain within balance limits at all rated load conditions



The Benefits:

- Extends transmission distance
- Reduced voltage drop at a given kVA
- Reduced transmission line copper costs
- Reduced phase voltage imbalance
- Reduced conduit requirements
- Minimize gate delays caused by power rejection
- Encourages increased use of ground power by increasing confidence in system reliability
- **COST EFFECTIVE**



Long Term Advantage

The 400 Hz transmission line, at 960 volts or less, usually exhibits excessive inductive reactance as it transmits energy to the load. At power levels above 30 kVA on long runs or 60 kVA on medium to long runs, the reactive losses usually create phase imbalances that will cause an aircraft to disengage from ground power.

Even when the phases remain somewhat balanced, the transmission line efficiency becomes so poor that the load voltage will sag out of limits.

EQUIPMENT

- Modified NEMA 12 housing with hinged door.
- Suitable for all-weather, indoor/outdoor use.
- Boost adjustable for individual phases.
- 115/200 volt units have 8 boost steps.
- 575 and 960 volt units have 12 boost steps.
- Boost steps never exceed 2% per step.
- 20% boost available on all units.
- Solid-state overload protection protects capacitors and aircraft from over boost caused by overload. Protection starts at 130% of full load rating. Nuisance trip is positively eliminated.
- All capacitors and controls mounted on door.
- All components, wiring and boost adjustments are accessible with the front door open.
- Lifting eyes are provided.
- 115/200 volt units are four wire wye. 575 and 960 volt units are three wire delta.

INSTALLATION

- The entire lower 9" of the housing is for field wiring.
- Fastening hardware is provided for field connections.
- All conduit holes are punched on the jobsite to exact site requirements.
- The housing is secured through holes in the floor of the housing.
- The housings are joined with splice plates (provided) when stacked.
- Up to five units may be stacked in a column.
- Units may be installed back-to-back.
- Units may be fitted on top of Hobart LDCs.
- The finish is two part polyurethane paint or fused polyester powder coating.

STANDARD LINE DROP COMPENSATORS

BASIC PART NUMBER IS 900-30002-XX

-XX	KVA	VOLTAGE	BOOST PERCENT	HEIGHT IN./ (MM)	WIDTH IN./ (MM)	DEPTH IN./ (MM)	WEIGHT LBS/KG	UL ®
22	90	115/200	7 TO 20	18" / (458)	30" / (762)	18" / (458)	235 / (107)	√
14	140	115/200	7 TO 20	18" / (458)	30" / (762)	18" / (458)	325 / (148)	
02	60	575	4 TO 20	18" / (458)	30" / (762)	18" / (458)	217 / (99)	√
07	75	575	4 TO 20	18" / (458)	30" / (762)	18" / (458)	225 / (102)	√
01	90	575	4 TO 20	18" / (458)	30" / (762)	18" / (458)	235 / (107)	√
06	125	575	4 TO 20	18" / (458)	30" / (762)	18" / (458)	315 / (143)	√
05	140	575	4 TO 20	18" / (458)	30" / (762)	18" / (458)	325 / (148)	√
34	180	575	4 TO 20	18" / (458)	30" / (762)	18" / (458)	325 / (148)	√
09	90	960	4 TO 20	18" / (458)	30" / (762)	18" / (458)	235 / (107)	
28	120	960	4 TO 20	18" / (458)	30" / (762)	18" / (458)	315 / (143)	
05	140	960	4 TO 20	18" / (458)	30" / (762)	18" / (458)	325 / (148)	

Other unit ratings available upon request

Contact us at PAGE to discuss your specific design and project requirements !

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