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299 PHL-4TSI Aluminum Electrolytic Capacitors

# Robust, High Capacitance Solutions for Applications Requiring a DC-Link Capacitor or Capacitor Bank

## ADVANTAGE



Offering a high ripple current capability at an ambient temperature of 105 °C, with a useful life of > 5000 h, the 299 PHL-4TSI series is suitable for applications with demanding surroundings.

## KEY PRODUCT FEATURES

- ✓ Rated voltage - various CV values available for voltages from 350 V to 600 V
- ✓ Rated capacitance - high capacitance values available in large standard electrolytic snap-in can sizes
- ✓ High ripple current rating allows for a reduction in the component count when ripple current is the most important parameter for capacitor bank selection



## RESOURCES



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## MARKETS AND APPLICATIONS



### MOBILITY

- Transportation - railway equipment e.g. metro and light rail, trams, trolleybuses, etc.



### ENERGY

- Energy generation and exploration - power plants, wind turbines, solar power, harvesting
- Energy distribution and management - HVDC, energy transportation
- Energy storage - electrolytic and electrostatic storage



### INDUSTRIAL

- Industrial drives and tools - motor drives, welding, cutting melting inverters, converters
- Industrial Infrastructure - HVAC, heating, cooling, ventilation, UPS



### MEDICAL

- Medical instrumentation, monitoring, therapeutics - professional medical equipment



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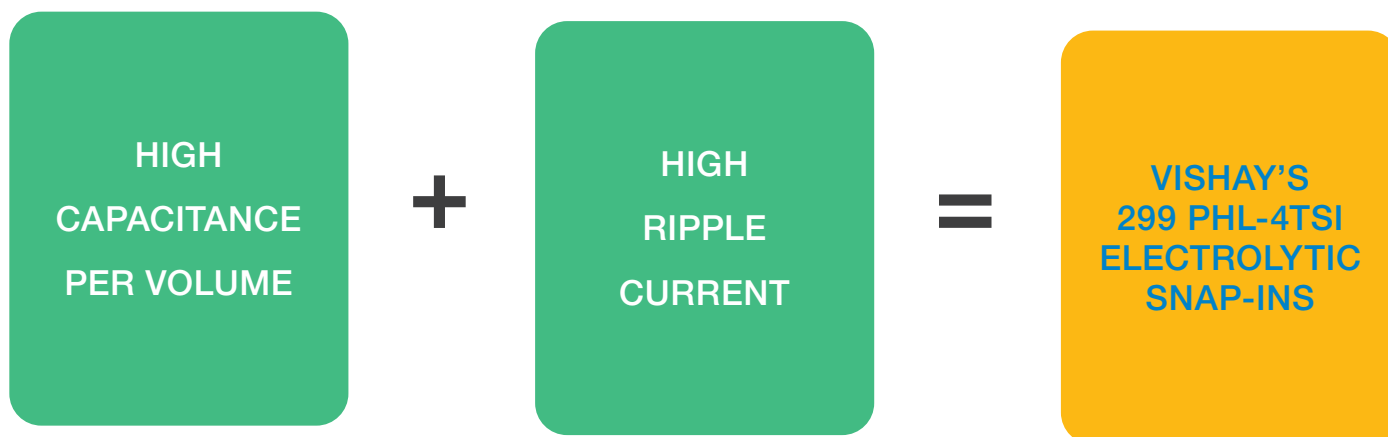
## ADDITIONAL BENEFITS

- Stable mounting and keyed polarity due to the 4-pin terminal disc. In addition, snap-in capacitors with large case sizes are properly fixed on the PCB
- Sometimes manufacturers implement the DC-Link with screw-terminal capacitors that are hand-mounted on a bus bar. One can gain worthwhile cost savings by instead building the DC-Link with these large can, four-terminal snap-in capacitors from Vishay, which can be placed on a high current PCB and mounted using a wave solder process

## QUICK REFERENCE DATA

DESCRIPTION	VALUE	DESCRIPTION	VALUE
Nominal case size ( $\varnothing$ D x L in mm)	35 x 50 to 45 x 100	Category temperature range	-40 °C to +105 °C
Rated capacitance range, $C_R$	270 $\mu$ F to 3300 $\mu$ F	Useful life at 105 °C	> 5000 h
Tolerance on $C_R$	$\pm 20$ %	Endurance test at 105 °C	2000 h
Rated voltage range, $U_R$	350 V to 600 V	Based on sectional specification	IEC 60384-4 / EN 130300

## COMPACT DESIGN MATCHES PERFORMANCE



299 PHL-4TSI series capacitors are ideally suited for applications that demand high energy storage in a small form factor.

Please [contact us](#) if you would like to purchase or [order samples](#).