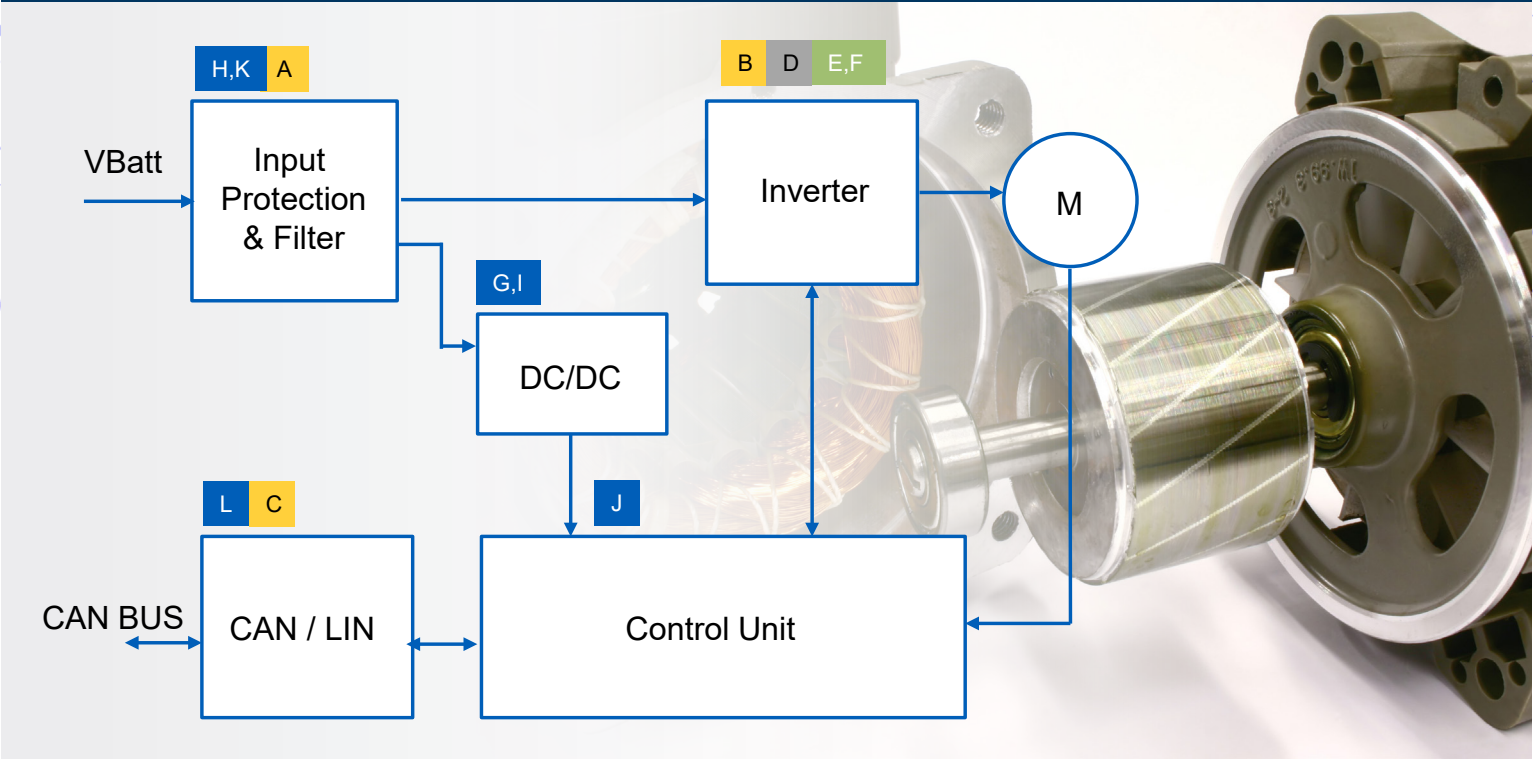


Industrial Brushless DC Motor Drives

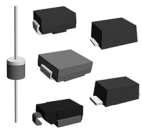
Electronic components within Brushless DC Motor Drives (BLDC) play an important role, paving the way for heightened energy efficiency, reduced heat dissipation, and extended motor life for BLDC applications, from automotive and robotics to industrial automation and consumer electronics.

How electronic components used here?



	Product	Series	Function
Circuit Pro.	A	SMx/xKPE TVS Diodes	Surge/Load dump protection
	B		OV Protection/Snubber
	C		USB OC Protection
Cap-acitors	D	EFX2A	AC Filtering
	E	ECSTA, CHSA	Current sensing
	F	Nxx NTC Thermistors	Temperature sensing
Sensors	G	HCM1A, MPIA, SDCxA, DRA	DC/DC (Buck/Boost)
	H		Differential mode noise filtering
	I		DC/DC (SEPIC)
Magnetics	J	MFBA, MCLA	RF filter, Antenna matching
	K	Custom CMC	Common mode filter, power line
	L	ACE1V/ACE2V	Common mode filter, data line

Recommended Products



TVS Diodes

- 200 W to 12000 W peak pulse capability
- SMx and xKPE packages
- Automotive grade (AEC-Q101 qualified)



AMLV Multilayer varistors

- Up to 1200 A peak current
- Up to 56 V working voltage
- AEC-Q200 qualified



EFX2A Safety film capacitors

- Capacitance range: 0.1 μ F to 15 μ F
- Voltage rating: 305 Vac



CHSA Current sense resistors

- 2512 (6432 metric) to 5930 (15076 metric) package
- High power ratings, up to 15 W
- AEC-Q200 qualified



ECSTA Current sense transformers

- SMT sizes: 5 mm, 7 mm, 8 mm, 13 mm (3 mm to 8 mm height)
- Turn ratios available 20:1 to 200:1 and rated up to 15 A
- AEC-Q200, -40 °C to +125 °C



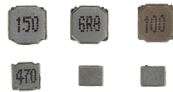
Nxx NTC thermistors

- Surface mount, radial, axial, and ring lug options
- Epoxy sealed and glass sealed options available



HCM1A High current molded inductors

- Popular SMT sizes: 5 mm, 7 mm, 10 mm, 13 mm, 17 mm, 22 mm
- Inductance range: 0.10 μ H to 100 μ H, rated up to 100 A, low DCR
- AEC-Q200, -55 °C to +155 °C



SDCxA Semi-shielded inductors

- 4 mm, 5 mm, 6 mm, 8 mm SMT sizes
- Inductance range: 1.0 μ H to 100 μ H, rated up to 8 A, low DCR
- AEC-Q200, -55 °C to +125 °C



DRAQ Dual/coupled shielded inductors

- 4 mm, 5 mm, 6 mm, 8 mm SMT sizes
- 200/500 Vac isolation between windings
- AEC-Q200, +165 °C maximum operating temperature



HCSA High current molded coupled inductors

- Popular SMT size 10 mm (8 mm height), Coupled winding(1:1)
- Inductance: 10 μ H, 15 μ H, 22 μ H, rated up to 11 A, low DCR
- AEC-Q200, -55 °C to +155 °C



MFBA Ferrite beads

- EIA/Metric Sizes: (0402/1005), (0603/1608), (0805/2012), (1206/3126)
- High impedance up to 2000 Ω , high current up to 6 A
- AEC-Q200, -55 °C to +150 °C (High temperature rating)



MCLA Multilayer chip inductors

- Standard EIA 0402 to 3216 size
- High Q, higher current ratings
- Inductance range: 1.0 nH to 12 μ H
- AECQ Grade 3 qualified



ACE1V/2V CAN-Ethernet inductors

- EIA/Metric Size: (0805/2012), (1210/3225), (1812/4532)
- Inductance range: 11 μ H to 200 μ H
- AEC-Q200, OPEN Alliance 2.0 (ACE2V), -40 °C to +125 °C



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