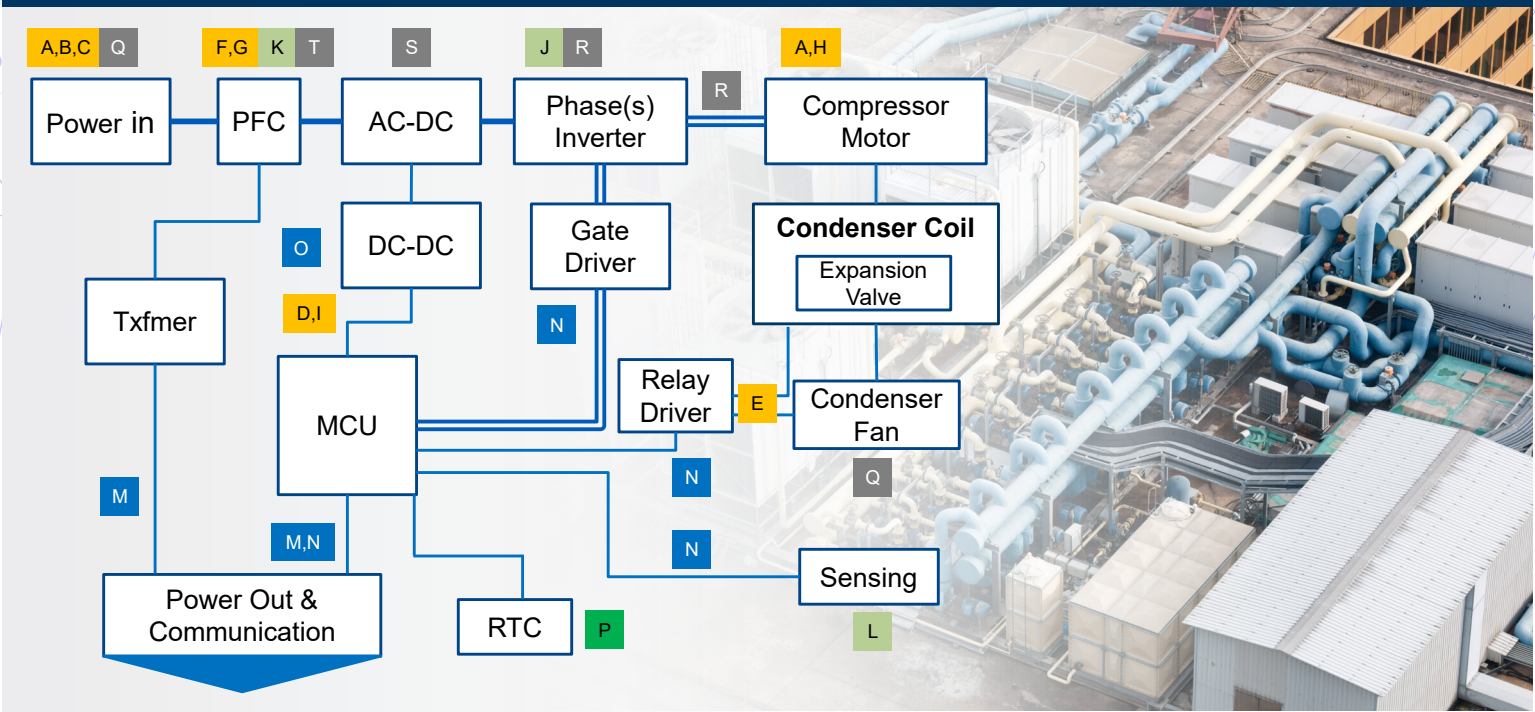


HVAC - Heating, Ventilating, and Air Conditioning

HVAC (Heating, Ventilating, and Air Conditioning) systems are essential for maintaining a comfortable and healthy indoor environment by controlling temperature, humidity, air quality, and ventilation. Eaton’s solutions help ensure that HVAC equipment operates efficiently even in the most challenging conditions and provides comfort and energy savings for property owners.

How electronic components used here?



		Product	Series	Function
Circuit Protection	A	14 mm fuse	EAC14	Overcurrent protection
	B	Cartridge fuse	S505H, MDP	AC input protection
	C	Fuse clip	1AXXXX PCB fuse clip	Ferrule fuse attaching
	D	PTC resettable fuse	PTS	Overcurrent protection
	E	Multilayer varistor ESD suppressor	MLVHV	High voltage OV protection
	F	Metal oxide varistor	MOVGT	Surge protection
	G	High power TVS diode	AK6E	Transient suppressor
	H		AK10E	
	I	ESD suppressor	TVS diode ESD suppressor	Highspeed data
Sensors	J	Current sense resistor	Metal shunt	Current sensing
	K	Current sense transformer	ECST	Current sensing
	L	NTC Thermistor	Epoxy coated	Temperature sensing
Supercaps	M	Common mode choke	CMS / ECMx	Noise filtering
	N	Ferrite bead	MFB	EMI suppression
	O	DC-DC converter	EPM	Isolated / Non isolated
	P	Coin cell supercapacitor	KR / KVR, KW / KVV	Backup power
Film caps.	Q	Safety film capacitor	EFX1S / EFX2S	EMI suppression class X1 & X2
	R	Pulse film capacitor	EFPLS	Snubbing / Resonant
	S	DC-Link film capacitor	EFDKS	DC-Link
	T	AC filtering film capacitor	EFACA	AC filtering

Recommended products



EAC14 14 x 38 mm EV fuse

- Current rating: 50 A to 80 A
- 420 Vac and 500 Vdc rating
- Bolt-down terminal and PCB terminal options available



MDP High voltage time delay fuse

- 1/4" x 1-1/4" ferrule fuse
- Cartridge and axial lead versions available
- 500 Vac / 250 Vdc, 0.25 A to 30 A
- High interrupting ratings, up to 3 kA



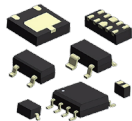
1AXXXX PCB fuse clip

- For 5 mm and 1/4" diameter fuse
- For PCB mounting
- Variety of sizes, options, and materials



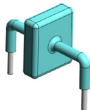
Integrated metal oxide varistor and gas discharge tube

- Size: 7, 10, 14 & 20 mm disc
- Voltage: 55 - 560 Vac
- GDT V (100 V/s): 90 - 1000 V, MOV V: 82 - 750 V
- -40°C to +105°C



TVS diodes ESD suppressor

- Voltages from 3.3 V up to 70 V
- Capacitances down to 0.07 pF
- Up to 30 kV ESD withstand
- 5000 W peak power dissipation on an 8/20 μ s waveform
- Low clamping voltage



AK10E High power TVS diode

- 10,000 A transient voltage suppressor
- Through-hole package, bi-polar
- Low slope resistance
- Low clamping voltage



Epoxy coated NTC thermistor

- Radial lead NTC thermistor with enameled wire / insulation lead wire options
- Wide resistance range
- Faster thermal response



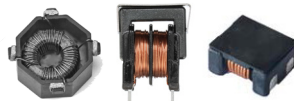
ECST Current sense transformer

- EE4.4, EE4.6, EE5.0, EE8.3 SMT size
- High current capability up to 15 A
- 500 V isolation voltage
- High frequency range up to 1 MHz



EPM DC-DC converter

- Non-isolated and isolated options
- High efficiency, wide input voltage range, low power consumption and programmable features



CMS / ECMx Common mode choke

- Through-hole and surface mounted sizes (torroidal option available)
- Current ratings up to 15 A
- Provides common-mode noise suppression up to 100 MHz



MFB Ferrite chip bead

- EIA/Metric Sizes: (0402/1005), (0603/1608), (0805/2012), (1206/3126)
- High impedance up to 2000 Ω , high current up to 6 A
- -55 °C to +125 °C



KW / KVV Coin cell supercapacitor

- KW: Operating voltage up to 5.5 V, 0.1 F to 1 F capacity
- KVV: Operating voltage up to 5 V, 0.68 F to 1 F capacity
- Operating temperature: -40 °C to 85 °C



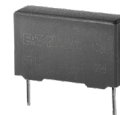
EFDKS DC-Link film capacitor

- Capacitance range: 1 μ F to 200 μ F
- Voltage rating: 450 Vdc to 1200 Vdc
- Operating temperature: -40 °C to +105 °C



EFX1S / EFX2S Safety film capacitor

- Voltage rating: 480 Vac / 1000 Vdc (EFX1S); 305 Vac / 630 Vdc (EFX2S)
- Capacitance: 0.01 μ F to 5.6 μ F (EFX1S); 0.1 μ F to 15.0 μ F (EFX2S)
- -40 °C to +110 °C



EFPLS Pulse film capacitor

- Capacitance range: 0.001 μ F to 4.7 μ F
- Voltage rating: 630 Vdc to 2000 Vdc
- Operating temperature: -40 °C to +105 °C



EFACA AC-filtering film capacitor

- Capacitance range: 0.1 μ F to 60 μ F
- Voltage rating: 180 Vac to 760 Vac
- Operating temperature: -55 °C to +105 °C

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