

HVAC Protection

INTELLIGENT VOLTAGE MONITORING

KoolGuard Series: DTK-KG2

MINI-SPLITS, INVERTER DRIVEN COMPRESSOR SYSTEMS & ECM MOTORS

UL 60947-1 & 60947-5-1 | Voltage Monitor

- Protects against under- and over-voltage events
- Safely disconnects power to the system until input voltage returns to normal range
- Diagnostic LEDs indicate voltage condition
- Includes surge protection components



Voltage Condition Codes

			Condition Normal / On			
			Line 1 Over or Under / Off			
			Line 2 Over or Under / Off			
			Recovering from Line 1 Over or Under / Delayed			
			Recovering from Line 2 Over or Under / Delayed			
			Service Required / On			

B = Blinking A = Alternating

Technical Specifications

Voltage configuration	120/240VAC Split Φ
	120/208VAC Split Φ
Operating frequency	50/60Hz
Max. continuous current	40 Amps
Undervoltage protection	104VAC (L-G)
Overvoltage protection	130VAC (L-G)
Short cycle delay	3 min (default)
	30 sec (optional)
Surge Current Rating	50,000A

Mechanical Specifications

Dimensions	6.29" L x 6.29" W x 2.36" H
	(160 mm x 160 mm x 60mm)
Weight	3 lb (1.36 kg)
Housing	UL type 4X enclosure
Connection method	Series-wired
Conduit size	1/2" or 3/4" NPT
Terminal lugs	14-6 AWG



Disconnect Switch



DTK-KG2



Outdoor Condenser Unit

SURGE PROTECTIVE DEVICES

A | DTK-120/240CM+

CONDENSER UNIT OR AIR HANDLER

UL 1449 | Type 1 SPD

- 10kA Nominal Discharge Current Rating
- NEMA 4X enclosure
- Diagnostic LED
- 3 year \$7,500 warranty



B | DTK-120/240CMX

CONDENSER UNIT OR AIR HANDLER

UL 1449 | Type 1 SPD

- 20kA Nominal Discharge Current Rating
- NEMA 4X enclosure
- Diagnostic LED
- 3 year \$7,500 warranty



C | DTK-CMXPLUS Series

3 PHASE CONDENSER UNIT

UL 1449 | Type 1 SPD

- 25,000A/phase
- NEMA 4X enclosure
- Diagnostic LED

- **DTK-2403CMXPLUS** 208/240VAC three phase
- **DTK-4803CMXPLUS** 480VAC three phase
- **DTK-6003CMXPLUS** 600VAC three phase



D | DTK-4LVLPLV

THERMOSTAT CONTROL WIRING

UL 497B | 20,000A

- 4-pair, 8-wire 24V
- Install in series with thermostat control wires at air handler
- 30-12 AWG terminal block

