Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Product ID: 330873

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).

Image:

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MT-DTCB-SF6-R7-3P-AC-DXN-3000A-63KA-6-FM-Z-Z-N4X-M6 Dead Tank Circuit Breaker

Unit Type: SF6 Circuit Breaker, Dead Tank
Nominal Voltage: 230,000V AC
Maximum Voltage: 245,000V RMS
Rated Voltage Range Factor: 1.0 K
Rated Continuous Current: 3000A

Insulation Level:

Impulse Withstand Voltage, 1.2x50 µ sec wave: 900 kV, RMS
Power frequency withstand (dry): 425 kV, RMS
Parameters Transient Recovery Voltage Per ANSI/IEEE C.37.06:
Rated time to point P, T2, µ sec.: 520
Rated rate, R, kV/µ sec.: 2.0
Rated delay time, T1, µ sec.: 2
No. Of Poles: 3-Poles
Frequency: 60 Hz
Rated Short-circuit Current: 63 kA sym rms at 245 kV
Short-time Capability (3 sec.): 63 KA
Closing and Latching Capability: 104 kA RMS, Peak
Rated Interrupting Time (max.): 3 Cycles
Auxiliary Voltage: 115/230V
Operating Mechanism: Motor Charged Spring for 3 pole operation ("OCO")
Spring Motor Voltage: 120VAC/125VDC
AC Heater Voltage: 120/240VAC

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 98 Dead Front Switch Boards
Complies With IEEE C37.06-2000
Complies With ANSI/IEEE C37.04-2018
Complies With ANSI/IEEE C37.04-1999
Complies With ANSI/IEEE C57.13-1993
Complies With ASTM D 2472-00
Complies with IEEE 693, High ~0.5G
30 Years Maintenance Cycle

Made in the USA

Receptacle Voltage: 120VAC
Control Supply Voltage : 125VDC
Breaks Per Phase: (1)
Contact Gap: 4.5 inches
Phase Spacing: 85.3 inches
RIV at 1000 kHz: <500 µV
Trip and Close Coil Voltage Range: 125VDC
Number of Trip Coils: (1)
Closing Coil: Operated electrically (local & remote)
Trip Coil: Operated electrically (local & remote) + mechanically
Space Heater: Included, Thermostat controlled
Asymmetrical Int. Capability Ratio: 1.2
Closing Time (Total): 100 ms
Rated Reclosing Time: 12 Cycles
Rated Duty Cycle: OCO-15S-CO
Bushing Current Transformer: Included, (2) Per Bushing, 3000:5 Multi-Ratio, C800 Relaying Accuracy Class, 2.0 Thermal Rating Factor
Bushing Type: Porcelain, ANSI 61 Sky Grey
Bushing Quantity: (6) Roof Bushings
Bushing Termination: Tinned bronze, 6-hole NEMA pad Aluminum Alloy Terminals
Bushing Rating: 245 kV Class, 900 kV BIL, 212-inch Min. Creepage Distance
NESC Vertical Clearance Unguarded Parts: 13 ft - 9 in (Min)*
External Metal Parts: Hot Dipped Galvanized per ASTM standards
Support Frame Ground Lugs: Suitable for #4/0 AWG Cu
Fusing: Included, knife blade fuses for close and trip circuits
Switching: Included, double-pole single throw switches for the trip and close circuit isolation
Pressure Gauge: Included
Pressure Switches: For trip/close & alarm circuits (low & low/low)
Ambient Temperature Range: -10° C to +50° C
Partial Discharge Capacity: < 5 pc
Seismic Zone: High or Moderate, Complies with IEEE-693
Wind Load Rating: 115 mph
Altitude: 89ft Above Sea Level
Mounting: Floor mounted on a welded hot-dip galvanized steel base structure with removable legs
Lifting Eyes: Included
Ground Pads: Included, (2) bolted bronze type grounding terminals for 7#5 Copper weld conductor are provided on diagonally opposite corners of the structural frame of the high voltage
Enclosure Material: Coated Steel
Nameplate Material: Stainless Steel
Enclosure Finish: ANSI 61 Sky Grey
Insulating Medium: SF6
SF6 Gas System: Includes pressure alarms, valves, dryers, filters and all accessories for filling, removal, operation and maintenance of the circuit breaker, Temperature compensated gas pressure gauges and gas density monitors, 1/4" tube fitting - a 37 degree AN male 7/16-20 flare type, 1” Dilo fitting (Swagelok. Manufactured) for SF6 filling, 316 stainless steel gas lines and valves (Cajon Manufactured), Two pressure switches
SF6 Tubing: H2S corrosion proof (316 Stainless Steel)
SF6 Tubing Joints: Mechanical Compression type (no silver soldering)
SF6 Weight: 161 lbs
SF6 Rated Operating Pressure: 87 PSIG @ 20°C
SF6 Min. Operating Pressure: 72 PSIG @ 20°C
SF6 Alarm Pressure: 75 PSIG @ 20°C
SF6 Cutout Pressure: 72 PSIG @ 20°C

Gas filling: 1 bottle of SF6 gas per breaker

SF6 Leakage Rate Per Year: < 0.5%

Gas filling equipment to be supplied: Regulators, Hoses, fittings & special tools

Hardware Material: 316 Stainless Steel

Control Cabinet Protection Degree: Weatherproof Fiberglass NEMA 4X Enclosure

Service Condition: Outdoor

Total Dimensions: 196.85"-W, 146.53"-D, 178.98"-H

Total Weight: 9,920 lbs

Foundation Dimensions: 106"-W, 44.49"-D, 11.81"-H

Shipping Dimensions: TBD

Shipping Weight: TBD

Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Made in the USA

The MT-DTCB-SF6-R7-3P-AC-DXN-3000A-63KA-6-FM-Z-Z-N4X-M6 from Larson Electronics is a 245 kV class dead tank SF6 circuit breaker, new recyclable embedded poles up to 245 kV, 63 kA, and 3000 A C2 Class back-to-back capacitive switching and out of phase switching test compliance.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

The MT-DTCB-SF6-R7-3P-AC-DXN-3000A-63KA-6-FM-Z-Z-N4X-M6 service entrance circuit breaker provides a safe and reliable way for operators in industrial settings to tap into and utilize power sources independently of the work area. Compatible with three-phase 245000V AC. This 3-pole circuit breaker carries a 3000A RMS at 230000V AC.

Operation: All the control and signaling devices are located on the front of the circuit-breaker. Suitable locks prevent incorrect operations. The antipumping device is always provided on the actuator.The nameplate, located on the front panel, enables all the circuit-breaker characteristics to be identified.

Mount: The MT-DTCB-SF6-R7-3P-AC-DXN-3000A-63KA-6-FM-Z-Z-N4X-M6 circuit breaker is floor mounted. The breaker is operated by a motor-charged stored energy spring mechanism, charging of the circuit breaker is normally performed by an electric motor and in an emergency by a manual charging handle.

Certification: This MT-DTCB-SF6-R7-3P-AC-DXN-3000A-63KA-6-FM-Z-Z-N4X-M6 complies with the ISO 9001 Standards, certified by an external independent organization, complies with the ISO 14001 Standards, certified by an external independent organization and OHSAS 18001 Standards

Applications: This MT-DTCB-SF6-R7-3P-AC-DXN-3000A-63KA-6-FM-Z-Z-N4X-M6 is used in power distribution to control and protect lines, transformer and distribution substations, motors, transformers, capacitor banks, etc.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands

of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Frequently Asked Questions (FAQ)

There are no Faqs

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Image:

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Image:

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Image:

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Image:

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Product ID: 330873

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/330873.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/330873.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/330873.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/330873.JPG)
- **HigResPic5**(https://www.larsonelectronics.com//images/product/HigResPic5/330873.JPG)
- **HigResPic6**(https://www.larsonelectronics.com//images/product/HigResPic6/330873.JPG)
- **HigResPic7**(https://www.larsonelectronics.com//images/product/HigResPic7/330873.JPG)
- **Video1**(https://www.youtube.com/watch?v=D1zbANtgS48)
- **Video2**(https://www.youtube.com/watch?v=FcbIEGXvqyA)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)