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MT-DTCB-SF6-R7-3P-AC-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1

Dead Tank SF6 Circuit Breaker, 4000 Amp, 245000V AC, 3-Pole, Floor Mounted, w/ 3-Pole Control

Product ID: 332352



Image: MT-DTCB-SF6-R7-3P-AC-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1

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-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1 Dead Tank Circuit Breaker

Unit Type: SF6 Circuit Breaker, Dead Tank
Nominal Voltage: 245,000V AC
Maximum Rated Voltage: 245,000V RMS
Rated Voltage Range Factor: 1.0 K
Rated Continuous Current: 4000A

Insulation Level:
60 Hz Power Frequency Withstand Voltage: 650 kV
BIL: 1050 kV

No. Of Poles: 3-Poles
Frequency: 50 Hz
Rated Short Time Withstand Current, Up to 3 s: 40 KA
Rated Peak withstand Current: 125 KA
Maximum Symmetrical Interrupting Capability: 40 KA
1-Second Short Time Current Carrying Capability: 40 KA
Closing and Latching Capability: 101 kA RMS, 170 kA Peak
Line Breaking Capacity Under No-load Conditions: 10
Rated Cable Breaking Current: 125
Rated Interrupting Time (max.): 3 Cycles
Rated Permissible Tripping Delay: 1 Sec.
Operating Mechanism: Universal Motor Charged Spring for 3 pole operation ("OCO")
Spring Charging Motor Voltage: 110 VDC

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
30 Years Maintenance Cycle
Made in the USA

Control Voltage: 110 VDC

Control Type: 3-Pole

Heater Supply: 220 VAC

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: 110VDC

Number of Trip Coils: (2)

Closing Coil: Operated electrically (local & remote)

Trip Coil: Operated electrically (local & remote) + mechanically

Auxiliary Switches: Included, w/ (12) spare poles (6 N.O. and 6 N.C.)

Alarm Dry Contacts: Included, Low SF6 gas, position, power loss, spring discharged

Space Heater: Included, Thermostat controlled

GFI Convenience Outlet: Included, 120 Vac

Local/Remote selector switch: Included

Emergency mechanical trip and lockout feature: Included

Molded case circuit breakers: Included

Closing Time (Total): 100 ms

Rated Reclosing Time: 20 Cycles

Rated Duty Cycle: 0-0.3 sec-FO- 3 min - FO

Bushing Current Transformer: Included, (2) Per Bushing, 3150:5 MR, C800 Accuracy Class, w/ #10 AWG, color-coded Secondary Leads, and Shorting Blocks
Bushing Type: Porcelain, ANSI 61 Light Grey
Bushing Quantity: (6) Roof Bushings
Bushing Termination: Tinned bronze, 4-hole NEMA pad Aluminum Alloy Terminals, untapped, vertical flat
Bushing Rating: 245 kV Class, 1050 kV BIL

External Metal Parts: Hot Dipped Galvanized Steel per ASTM standards

Support Frame Ground Lugs: Suitable for #4 AWG–500 MCM

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 (removal without degassing)

Pressure Switches: For trip/close & alarm circuits (low & low/low)

Ambient Temperature Range: -20° C to +40° C

Partial Discharge Capacity: < 5 pc

Seismic Withstand Rating: 0.3 g Dynamic, Complies with IEEE-693
Wind Load Rating: 90 mph
Mounting: Floor mounted on a welded hot-dip galvanized steel base structure with removable legs
Lifting Eyes: Included
Ground Pads: Included, (2) NEMA 2-hole pads
Enclosure Material: Coated Steel

Nameplate Material: Stainless Steel

Enclosure Finish: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
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: 130 PSIG @ 20°C

SF6 Min. Operating Pressure: 110 PSIG @ 20°C

SF6 Alarm Pressure: 101 PSIG @ 20°C

SF6 Cutout Pressure: 87 PSIG @ 20°C

Gas filling: Dilo DN 20 connector, w/ a removable dust cap

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
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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-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1 from Larson Electronics is a 245 kV class dead tank SF6 circuit breaker, new recyclable embedded poles up to 245 kV, 40 kA, and 4000 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-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1 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 4000A RMS at 245000V 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-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1 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-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1 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-DEHJ-4000A-40KA-5-FM-Z-Z-N4X-M1 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.

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Frequently Asked Questions (FAQ)

There are no Faqs