

MT-DTCB-SF6-R7-3P-AC-DXF-1200A-40KA-6-FM-Z-Z-N4-M2

Dead Tank SF6 Circuit Breaker, 1200 Amp, 115000V AC, 3-Pole, Frame Mounted - Elevation 5773 ft

Product ID: 313075



Image: MT-DTCB-SF6-R7-3P-AC-DXF-1200A-40KA-6-FM-Z-Z-N4-M2

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-DXF-1200A-40KA-6-FM-Z-Z-N4-M2 Dead Tank Circuit Breaker Ratings

Unit Type: SF6 Circuit Breaker, Dead Tank

Nominal Voltage: 115000V AC

Maximum Voltage: 123000V RMS (99000V derated)

Rated Voltage Range Factor: 1.0 K

Rated Continuous Current: 1200A

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

Made in the USA

Insulation Level:

Withstand Test Voltage (Low Freq.): 260 kV, RMS

Withstand Test Voltage (Impulse): 550 kV, Crest

Chopped Wave (2 μ s): 710 kV

Chopped Wave (3 μ s): 632 kV

No. Of Poles: 3-Poles

Frequency (Hz): 60 Hz

Rated Short Circuit Current at Rated Max. kV: 40 KA

Maximum Symmetrical Interrupting Capability: 40 KA

DC Component: 52%

Rated Making Current: -

3-Second Short Time Current Carrying Capability: -

Closing and Latching Capability: 108 kA Peak

Rated Out Of Phase Current: -

Rated Interrupting Time (max.): 3 Cycles

Rated Permissible Tripping Delay: 3 Sec.

Operating Mechanism: Motor Charged Spring for 3 pole operation ("OCO")

Auxiliary and Control Voltages:

Motor Voltage: 208VAC, 1-Ph
Closing Control Voltage: 125VDC
Tripping Control Voltage: 125VDC
Heater Voltage: 208VAC, 1-Ph
Cabinet Outlet and Light Voltage: 120VAC

Auxiliary Switches:

Local/Remote Selector Switch: Included
Spare 'a' Contacts: Included, (8)
Spare 'b' Contacts: Included, (8)

Alarms:

Loss of AC Voltage: Included
Low DC Voltage at Close Coil: Included
Low DC Voltage at Trip Coil 1: Included
Low DC Voltage at Trip Coil 2: Included
Breaker Status: Included
Circuit Breaker Wear Alarm: Included
Close Coil Available Status: Included
Close Coil Loss of Power: Included
Low Operating Pressure: Included
Low SF6 Gas Alarm: Included
Low SF6 Gas Alarm Lockout: Included
Pn/Hd/Sp Charged Status: Included
Pn/Hd/Sp Discharged Status: Included
Pn/Hd/Sp Charging Motor Loss of Power Alarm: Included
Pole Disagreement : Included
Breaks Per Phase: (1)
Contact Gap: 3.5/4.5 inches
Phase Spacing: 69.9 inches
RIV at 1000 kHz: <500 μ V
Number of Trip Coils: (2)
Closing Coil: Operated electrically (local & remote)
Trip Coil: Operated electrically (local & remote) + mechanically
Trip Coil Monitors: N/A
Space Heater: Included, Thermostat controlled
Rated Reclosing Time: 12 Cycles
Rated Duty Cycle: OCO-15S-CO (No Derating)
Bushing Current Transformer: Included, [(2) Per Each Incomer Bushing (1200:5 Ratio (MR), C800 Accuracy Class, 2.0 Thermal Rating Factor)] & [(2) Per Each Outgoing Bushing (1200:5 Ratio (MR), C800 Accuracy Class, 2.0 Thermal Rating Factor)]
Bushing Type: Composite, ANSI 70 Grey
Bushing Quantity: (6) Bushings
Bushing Termination: Tinned bronze, 4-hole NEMA Pad Vertical Terminals
Bushing Rating: 123 kV Class, 550 kV BIL, 133 inches Min. Creepage Distance
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: -30° C to +40° C
Seismic Withstand Rating: Category B, Class D, 0.169 S_s, 0.051 S₁, Complies with IEEE-693
Wind Load Rating: 114 mph
Wind Exposure Category: Category C
Humidity: 100%
Snow Load: 45 psf
Elevation: 5773ft
Risk Category: Category III
Mounting: Frame 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 70 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: 58 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

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

Hardware Material: 316 Stainless Steel

Control Cabinet Protection Degree: Weatherproof Fiberglass NEMA 4 Enclosure

Service Condition: Outdoor

Total Dimensions: 139.8"-W, 113.6"-D, 157"-H

Total Weight: 3,527 lbs

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-DXF-1200A-40KA-6-FM-Z-Z-N4-M2 from Larson Electronics is a 123 kV class dead tank SF6 circuit breaker, new recyclable embedded poles up to 123 kV, 40 kA, and 1200 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-DXF-1200A-40KA-6-FM-Z-Z-N4-M2 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 123000V AC (99000V Derated). This 3-pole circuit breaker carries a 1200A RMS at 115000V 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-DXF-1200A-40KA-6-FM-Z-Z-N4-M2 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-DXF-1200A-40KA-6-FM-Z-Z-N4-M2 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-DXF-1200A-40KA-6-FM-Z-Z-N4-M2 are 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.







Frequently Asked Questions (FAQ)

There are no Faqs