Larson Electronics LLC
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Product ID: 332903

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-DXA-1200A-25KA-6-FM-Z-Z-N4-M1 Dead Tank Circuit Breaker

Unit Type: SF6 Circuit Breaker, Dead Tank
Nominal Voltage: 69000V AC
Maximum Voltage: 72500V RMS
Rated Voltage Range Factor: 1.0 K
Rated Continuous Current: 1200A

Insulation Level:
Withstand Test Voltage (Low Freq.): 140 kV
Lightning Impulse Withstand (BIL): 350 kV
Low Frequency Withstand (1 min): 140 kV RMS
Chopped Wave (2 µs): 385 kV
Chopped Wave (3 µs): 375 kV
External Standard Creepage Distance: 89.88 inches
External Standard Strike To Ground Distance: 78.74 inches

No. Of Poles: 3-Poles
Frequency (Hz): 60 Hz
Rated Short Circuit Current at Rated Max. kV: 25 KA
Rated Making Current: 62.5 kA
Maximum Symmetrical Interrupting Capability: 25 KA
3-Second Short Time Current Carrying Capability: 25 KA
Closing and Latching Capability: 62.5 kA
Rated Out Of Phase Current: 10 kA

Ratings

Complies With IEEE-693
Complies With ASTM D 2472-00
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
Made in the USA

Rated Interrupting Time (max.): 3 Cycles
Rated Permissible Tripping Delay: 1 Sec.
Auxiliary Voltage: 115/230V
Operating Mechanism: Motor Charged Spring for 3 pole operation ("OCO")
Motor Voltage: 125VDC
Control Voltage: 125VDC
Breaks Per Phase: (1)
Contact Gap: TBD
Phase Spacing: TBD
RIV at 1000 kHz: <500 µV
Trip and Close Coil Voltage Range: 48/125/250VDC
Number of Trip Coils: (1)
Closing Coil: Operated electrically (local & remote)
Trip Coil: Operated electrically (local & remote) + mechanically
Trip Coil Monitors: Included
Space Heater: Included, Thermostat controlled
Rated Capacitance Current Switching (DC Component): 51%
Closing Time (Total): 100 ms
Rated Reclosing Time: 12 Cycles
Rated Duty Cycle: O – 0.3s – CO – 15s – CO
Bushing Current Transformer: Included, (2) Per Bushing, 1200:5 Ratio, C400 Accuracy Class
Bushing Type: Composite, ANSI 61 Sky Grey
Bushing Quantity: (6) Roof Bushings
Bushing Termination: Tinned bronze, 4-hole NEMA pad terminals
Bushing Rating: 72.5 kV Class
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 +55° C
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) 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: 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 @ 20ºC

Gas filling: 1 bottle of SF6 gas per breaker

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

Hardware Material: Coated Carbon Steel

Control Cabinet Protection Degree: Weatherproof Fiberglass NEMA 4 Enclosure

Service Condition: Outdoor

Total Dimensions: 89.96"-W x 119.6"-D x 126.77"-H

Total Weight: 3,086.47 lbs

Shipping Dimensions: 89.96"-W x 119.6"-D x 126.77"-H

Shipping Weight: 6,527.4 lbs

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

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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-DXA-1200A-25KA-6-FM-Z-Z-N4-M1 from Larson Electronics is a 72.5 kV class dead tank SF6 circuit breaker, new recyclable embedded poles up to 72.5 kV, 25 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-DXA-1200A-25KA-6-FM-Z-Z-N4-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 72500V AC. This 3-pole circuit breaker carries a 1200A RMS at 69000V 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-DXA-1200A-25KA-6-FM-Z-Z-N4-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-DXA-1200A-25KA-6-FM-Z-Z-N4-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-DXA-1200A-25KA-6-FM-Z-Z-N4-M1 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/332903.JPG)
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- **HigResPic7**(https://www.larsonelectronics.com//images/product/HigResPic7/332903.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)