

Product ID: 316881

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-DRC-1200A-20KA-6-FM-Z-Z-N4X-M2 Dead Tank Circuit Breaker

Unit Type: SF6 Circuit Breaker, Dead Tank

Nominal Voltage: 44000V AC

Maximum Voltage: 48.3 kV

Rated Voltage Range Factor K: 1.0

Rated Continuous Current: 1200A

Insulation Level:

Withstand Power Frequency Voltage (1 min, Dry): 105 kV

Withstand Power Frequency Voltage (10 sec, Wet): 95 kV

BIL: 250 kV

Creepage Distance (Phase To Ground): 2.13 in/kV

Creepage Distance (Phase to Phase): 1.22 in/kV

Phase: 3-Phase

No. Of Poles: 3-Poles

Frequency: 60 Hz

Rated Interrupting Current (Rated short circuit and short-time current): 20 KA

Rated Momentary Current (Rated closing and latching current): 52 KA

Rated Interrupting Time (max.): 3 Cycles

Reclosing Time Rating: 20 Cycles

Operating Mechanism: Motor Charged Spring for 3 pole operation

Operating Sequence: O-0.3S-CO-15S-CO

Stored Energy Mechanism : Included

Capability of the Stored Energy Mechanism: Full speed tripping/closing for maintenance

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 C37.09

Complies With ANSI/IEEE C57.13-1993

Complies With ASTM D 2472-00

Complies With IEEE-693

Two Years Warranty

Made in the USA

without control power

Anti Pump Mechanism : Included

Motor Voltage: 110-125VDC

Control Voltage: 110-125VDC

Breaker Auxiliary Contacts: (12) 52a Contacts, and (12) 52b Contacts

Name Plate Material: Stainless Steel

PHR Investment Number: Engraved / stenciled on nameplate

Trip Coil Voltage Range: 110-125VDC

Number of Trip Coil: (2), independent from each other

Control Power: Equipped with fuse disconnect switch, pull-out type, for but not limited:
Tripping, Closing, heater

Terminal Block: Molded one piece design type with 6 or 12 points

Spare Fuses: Included, Box for 10 spare fuses each size

Space Heater: Included, 220-240VAC, Thermostat controlled

Operation Counter: Included, mounted on the unit; Opening operation

Mechanically Trip Device: Included, mounted inside control box

GCB Support: Adjustable type in range 0–3 feet. Maximum height is 15 feet from ground to top of bushing by considering distance from bottom of control box to ground is not less than 2 feet

Wiring Cable: SIS type, laid in cable trench

Open and Close Indicator: Included

Lighting Using Door Switch: Included in Control Box

Outlet 110 / 220 (three wire): Included in Control Box

Local Open Close Push Button Operation: Included in Control Box

43 R/L Selector: Included in control panel for Remote & Local selector switch

Bushing Current Transformer: Included, (2) Per Bushing, 600:5 MR (10 taps), C400
Accuracy Class, Bushing type

Bushing Type: Porcelain, ANSI 70 Sky Grey

Bushing Quantity: (6) Roof Bushings

Bushing Termination: Copper stud connector, stud to cable 350-500 MCM, W/ 4-hole
NEMA pad terminals

Bushing Rating: 48.3 kV Class, 250 kV BIL

Altitude: Less Than 400ft above sea level

Relative Humidity: 60-90%

Average Rainfall: 135 inches per year

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

Seismic: Min. Zone 1 Uniform Building Code (min. 0.075g)

Max. Wind Velocity: 76.05 mph (Below 33ft), 89.47 mph (Above 33ft)

Seismic Loading: Zone 1 Uniform Building Code (min. 0.075g)

Atmospheric Contaminants: Corrosive Element Moisture, Dust 0.0125 mg/cu.ft,
and Pollution level: IV (very heavy)

Mounting: Skid Mounted

Lifting Eyes: Included

Ground Pads: Included, (2) 2/0 AWG bare copper

Enclosure Material: Coated Steel

Nameplate Material: Stainless Steel

Enclosure Finish: ANSI 70 Sky Grey, Munsell No. 5.0 BG 7.0/0.4

Alarm and Control Devices: Single-pole, double-throw switches, rated for a minimum of 10
(or 5) amperes, 125 V DC. Terminated on molded one piece design type with 12 points
terminal blocks.

Insulating Medium: SF6

SF6 Gas Monitoring: Includes, Pressure gauge

SF6 Low Alarm and Lock Alarm: Included

Spare SF6 gas tank: Included, (1)

Gas filling: Fit to DN8 and DN20

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

Hardware Material: High grade carbon steel, using hexagon head bolts and nuts.



Lifting Lugs: Included

Control Cabinet Protection Degree: Weatherproof Fiberglass NEMA 4X Enclosure

Service Condition: Outdoor

Dimensions: 265"-W, 217.7"-D, 206.7"-H

Weight: 163,142 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-DRC-1200A-20KA-6-FM-Z-Z-N4X-M2 from Larson Electronics is a 44 kV class dead tank SF6 circuit breaker, new recyclable embedded poles up to 44 kV, 20 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-DRC-1200A-20KA-6-FM-Z-Z-N4X-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 44 kV AC. This 3-pole circuit breaker carries a 1200A RMS at 44000V 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-DRC-1200A-20KA-6-FM-Z-Z-N4X-M2 circuit breaker is skid 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-DRC-1200A-20KA-6-FM-Z-Z-N4X-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-DRC-1200A-20KA-6-FM-Z-Z-N4X-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



Image:



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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/316881.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/316881.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/316881.JPG>)
- **Video1**(<https://www.youtube.com/watch?v=D1zbANtgS48>)
- **Video2**(<https://www.youtube.com/watch?v=FcbIEGXvqyA>)
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