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MT-DTCB-SF6-R7-3P-AC-DRC-1200A-20KA-6-FM-Z-Z-N4X-M2

Dead Tank SF6 Circuit Breaker, 1200 Amp, 44000V AC, 3-Pole, Skid Mounted

Product ID: 316881



Image: MT-DTCB-SF6-R7-3P-AC-DRC-1200A-20KA-6-FM-Z-Z-N4X-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-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 without control power

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

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

Special Orders - Special Requirements

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.

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-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.

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Frequently Asked Questions (FAQ)

There are no Faqs