

Product ID: 305181

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-CB-SF6-R7-3P-AC-DXK-3000A-63KA-56-FX-Z-Z-N4X-M3 SF6 High Voltage Circuit Breaker

Unit Type: HV-SF6

Rated Voltage (V): 138,000V AC

Rated Maximum Voltage (V): 145,000V AC

Rated Impulse Voltage: 650 KV

No. Of Poles: 3-Poles

Rated Breaking Capacity I_{sc}: 63 KA

Rated Short Time / Short Circuit Withstand Current (3 s) I_k: 63 KA

Making Capacity I_p: 63 KA

Frequency (Hz): 50/60 Hz

Absolute SF6 Gas Pressure (@ 20°C): 87 psig

Ambient Temperature Range: (-15°C)~(+50°C)

Rated Normal Current (Amps): 3000A

Minimum Short-line-fault-duty test current: 56.7 KA

Maximum Radio Influence Voltage, Line-To-Ground, at 1.1 p.u.: 2500 µV

Maximum Interrupting Time (ms): 50

Control Voltage: 125 Vdc

Auxiliary Ac Power: Included, 480 Vac

Operating Duty Cycle: O - 0.3 sec - CO - 15 sec - CO

Terminal Block: Included, ZWM sliding link type manufactured by STATES, 4.0 inches spacing between block edges, All terminal blocks have unique nomenclature, A safety cover is provided for each terminal block of 240-Volt AC and higher

Control Cabinet: Included, thermostatically-controlled 120/240-volt single-phase heaters, one receptacle (Type AR647/Crouse-Hinds) is provided to connect a portable 3-phase, 240-

Ratings

NRTL Listed Service Equipment

NRTL Listed to UL 98 Dead Front Switch Boards

Made in the USA

Volt or 480-Volt ac source to provide power for the compressor-motor circuits, provided with a grounding bar, the center of the control cabinet is 43 inches from the top of the foundation, the control cabinet is mounted on the circuit breaker frame

Operating Mechanism Cabinet: Included, provided with a grounding bar, equipped with corrosion free door handle and latched when closed

Breaker Tanks: Made of cast aluminum alloy rated for coastal environment applications

Support Frames: Made of galvanized steel

Breaks Per Phase : Included

Bushings: Silicone-Rubber-Weathershed, ANSI No. 70, Light Gray

Phase Spacing (From-Centerline-To-Centerline): 5/8"

Wind Velocity Rating: 100 miles/hour

Seismic Withstand: 1.0 g, Dynamic

Rated Voltage Range Factor: 1.0

Latching Capability : 164 KA peak

Capacitance Switching For Overhead Line : 160 A

Capacitance Switching For Isolated Current : 160 A

Rated Reclosing Time: 417 ms

Low-Frequency One-Minute Dry Withstand Test, 60-Hz : 310 KV

Wet 10-Second Withstand Tests, 60-Hz : 275 KV

Rated Full-Wave Dry Impulse Withstand Test, crest: 650 KV

Insulation Rated 2 Microsecond Chopped-Wave Withstand Voltage: 838 KV

Bushing Creepage Distance: 140"

Circuit Breaker Monitor System (CBMS): Included, Franklin Electric Optimizer 3 (OM3) circuit breaker monitor system (CBMS) which includes a density ready monitor (Order Code: "OM3D-F"), model DSDP (SF6) gas density sensor(s), OM-DCCT DC current transducer, and a set of current transformer sensors for the OM3 current input. The CBMS utilizes a fiber optic trip circuit isolator (OM-TCI) with included transmitter, receiver, and fiber optic interconnecting cables. Valves, fittings, and other plumbing equipment are furnished to allow both the OM-DSDP SF6 gas density sensor to operate simultaneously with the SF6 Gas System. Equipped with two Fusetron FRN-R-2 Class RK5 125VDC, 2 amp, dual-element, time-delay, Bussmann series fuses

CBMS Functions: Breaker status(OPEN/CLOSE), Contact Life (Cumulative I²T or IT), SF6 Density, SF6 Temperature, SF6 Pressure (Calculated), Motor Run Time, Motor Runs per Day, Motor UT, Motor Total Run Time, Heater Status(On/Off), Heater Current, OM3 Line Voltage, Ambient Cabinet Temperature, Cabinet door status (OPEN/CLOSED), Sensor Malfunction, Total Days since Last Operation, Last Trip Coil Energized, Close Latch Time, Open Average Velocity, Close Average Velocity, Open Operation Arcing Time, Clearing Time, Travel Time, Closing Time, Total Operation Count, Switching Operation Count, Fault Operations Count

CBMS Communications: The CBMS is equipped with a fiber-optic communication port and an RJ45 ethernet port. The CBMS is capable of providing data to an AVEVA Pi Historian system via DNP3.0 protocol. The CBMS is capable of supporting multi-session communication using TCP/IP and DNP 3.0 protocol. Both DNP 3.0 and TCP/IP protocols are able to run simultaneously.

CBMS Cabinet: stainless steel 304, Included thermostatically-controlled 120/240 volts AC single-phase heaters, a 60-watt minimum medium base, LED rough service lamp, and a switch energizing the lamp when the cabinet door is opened

External Strike To Ground: N/A

RL1 operating mechanism locking magnet: N/A

RL2 truck locking magnet: N/A

Interlock for fixed circuit-breaker: Gas Density Interlock switches and alarms

Mechanical isolation interlock with the switchgear door: N/A

Earthing contact on the truck: N/A

Two-level pressure switch: N/A

Two-level pressure switch plus SF6 control device with three LEDs: N/A

Insulating partitions: N/A

Current Transformer: Included, (3) Relaying class & (1) Metering Class for each bushing

Relaying Current Transformer: Aluminum Housing, C800, B-1.8,

MR, 300/500/800/1000/1200/1500/2000/2200/2500/3000:5

Metering Current Transformer: Aluminum Housing, C800, B-1.8, MR, 1500/3000:5

Trip Coils: Included, (2) Separate, Form 2

Mechanical Counter: Included, registers every closing or opening operation

Circuit Breaker Design: Dead-Tank with silicone-rubber-housed bushings and bushing-mounted current transformers

SF6 Weight: 130Lbs

Mounting: Fixed, Includes forklift tubes

Cabinets Material: Stainless Steel 316

Enclosure Finish: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)

Insulating Medium: SF6

Enclosures Rating: NEMA 4X

Dimensions: 170" W - 96.5" D - 171.6" H

Weight: 10,000 Lbs

Shipping Dimensions:

Shipping Weight:

Special Orders - Special Requirements

Contact us for special requirements

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E-mail: sales@larsonelectronics.com

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.

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-CB-SF6-R7-3P-AC-DXK-3000A-63KA-56-FX-Z-Z-N4X-M3 from Larson Electronics is a high voltage circuit-breakers use Sulphur Hexafluoride Gas (SF6) to extinguish the electric arc and as the insulating medium. Breaking in SF6 gas takes place without any arc chopping and without generation of over voltages. These characteristics ensure long electrical life of the circuit-breaker and limited dynamic, dielectric and thermal stresses on the installation. The circuit-breaker poles, which make up the breaking part, are systems with lifelong sealed pressure (IEC 62271-100 and CEI 17-1 Standards) and are maintenance-free

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

The MT-CB-SF6-R7-3P-AC-DXK-3000A-63KA-56-FX-Z-Z-N4X-M3 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 230000V AC. This 3-pole circuit breaker carries a 3000A RMS at 230000V 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: Circuit-breakers is in the fixed version. The light and compact structure of the circuit breaker ensures great sturdiness and excellent mechanical reliability.

Certification: This MT-CB-SF6-R7-3P-AC-DXK-3000A-63KA-56-FX-Z-Z-N4X-M3 complies with the ISO 9001 Standards, certified by an external independent organization. And complies with the ISO 14001 Standards, certified by an external independent organization.



Applications: This MT-CB-SF6-R7-3P-AC-DXK-3000A-63KA-56-FX-Z-Z-N4X-M3 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

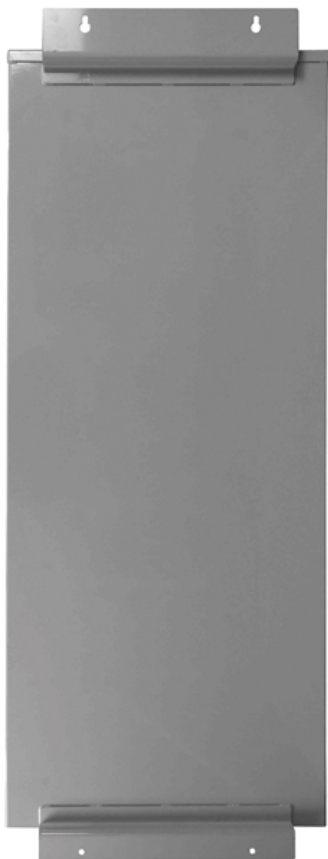


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Product ID: 305181

Export Control Classification Number (ECCN): EAR99



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