



OP# 639
 4/26/21

PURCHASE REQUEST

Dept./Office: **ICTMC**PR #: **GF-2021-04-00135**Date: **04-22-2021**Section/End-User: **Marco L. Cabras**Category: **Construction and Electrical Supplies**Funding Source: **General Fund - CO**Project Title/Code: **ICTMC-2021**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Molded Case Circuit Breaker (MCCB)	unit	1	30,000.00	SEAN O. VILLAGONZALO	30,000.00

Specification:

Device short name: Compact

Circuit breaker application: Distribution

Poles description: 3P

Protected poles description: 3t

Network type: AC

Network frequency: 50/60 Hz

Rated current: 160 - 175 A (40 °C)

Rated insulation voltage: 800 V AC 50/60 Hz

Rated impulse withstand voltage: 8 kV

Rated operational voltage: 690 V AC 50/60 Hz

Breaking capacity code: F

Breaking capacity: 35 kA at 480 V AC 50/60 Hz conforming to NEMA AB1

35 kA at 480 V AC 50/60 Hz conforming to UL 508

85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1

85 kA at 240 V AC 50/60 Hz conforming to UL 508

Icu 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2

Icu 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2

Ics 36 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2

Ics 85 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2

Suitability for isolation: Yes conforming to EN 60947-2

YES conforming to IEC 60947-2

Utilization category: Category A
Trip unit name: TM-D
Trip unit technology: Thermal-magnetic
Trip unit protection functions: LI
Trip unit rating: 125 A (40 °C)
Protection type: Overload protection (thermal)
Short-circuit protection (magnetic)
Pollution degree: 3 conforming to IEC 60664-1

COMPLEMENTARY

Control type: Toggle
Mounting mode: Fixed
Mounting support: Backplate
Upside connection: Front
Downside connection: Front
Mechanical durability: 40000 cycles
Electrical durability: 10000 cycles 440 V In/2 conforming to IEC 60947-2
15000 cycles 690 V In/2 conforming to IEC 60947-2
20000 cycles 440 V In conforming to IEC 60947-2
7500 cycles 690 V In conforming to IEC 60947-2
Connection pitch: 35 mm
Local signaling: Positive contact indication\
Long time pick-up adjustment type Ir: Adjustable
Long time pick-up adjustable range: $0.7 \dots 1 \times I_n$
Long time delay adjustment type: adjustable
[tr] long-time delay adjustment: $15 \text{ s } 6 \times I_r$
 $120 \dots 400 \text{ s } 1.5 \times I_n$
[Isd] Short-time pick-up adjustment type: Fixed

[Isd] Short-time pick-up adjustment range: 1250 A

Short-time delay adjustment type: Adjustable

ENVIRONMENTAL

Electrical shock protection class: Class II

Standards: EN 60947-2 IEC 60947-2 NEMA AB1 UL 508

Product certifications: CSA, UL

IP degree of protection: IP40 conforming to IEC 60529

IK degree of protection: IK07 conforming to IEC 62262

TOTAL

30,000.00

Purpose: Replacement to server room

Checked by:

MARLON G. BURLAS

Funds Available:

MYRNA S. PANCITO

TWG - Construction and Electrical Supplies

HEAD, BUDGET OFFICE

Signature:

Printed Name:

Designation:

Requested by:

MARCO L. CABRAS

END USER

Noted by:

SEAN O. VILLAGONZALO

UNIT HEAD, PROJECT LEADER

Approved by:

EDGARDO E. TULIN

PRESIDENT, VSU