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REPORT

ON

INFORMATION TECHNOLOGY AND COMMUNICATION
EQUIPMENT CABINET, ENCLOSURE AND RACKS SYSTEMS

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DESCRIPTION

PRODUCT COVERED:

USL, CNL Information Technology & Communication (ITC) Equipment Cabinet, Enclosure and Racks System, Titan Frame Series, Model R-TN-aUb-c where a, b and c indicate the dimensions of the rack. See Model Differences section.

ELECTRICAL RATING:

Not applicable.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE):

General - The products covered in this Report are Equipment **Cabinets** intended to be installed in a computer room, an office or other commercial environment. Cabinets that may be provided with optional shelves, casters, locking front and rear doors with recessed handles. The units can be shipped fully assembled or in sections with separate packages containing shelves, casters, etc. equipment or ITE equipment in accordance with the Installation Instructions of the National Electrical Code.

The equipment cabinet is provided with Main Protective Earthing Terminal for connection to the mains power supply protective earthing conductor. Required hardware, lock washers, and bolts are provided for installation in the field by licensed electrician or qualified personnel.

USL/CNL indicates investigation to UL 2416 Standard For Audio/Video, Information And Communication Technology Equipment Cabinet, Enclosure And Rack Systems; and CSA C22.2 No. 60950-1-07 (2nd Edition + Amendment 1) Information Technology Equipment Safety Part 1: General Requirements - Edition 2 - Revision Date 2011/12/19, except that the shelves were not evaluated to UL 2416, clauses 11.2 and 11.3.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE) - con't:

- Load Ratings:

Load Ratings for the Titan Frame series are as follows:

Static (on leveling feet) 5400 lbs.

All rated capacities include roof loads (fan trays, cable troughs, cable trays, cable ladders, cabling, etc.)

CONSTRUCTION DETAILS:

See Section General for additional details.

Corrosion Protection - The units are constructed of painted metal.

Operating / Instructions / Safety Manual - A copy of any manual or set of instructions is included with each product.

Sharp Edges - The units are to be free of sharp edges that may be sufficiently sharp to constitute a risk of injury to persons in normal maintenance and use.

Markings are required to be permanent. Marking may be adhesive backed labels or Recognized Component Marking and Labeling Systems (PGDQ2) or may be provided by die-stamping, ink stamping (permanent type ink). The Marking Label must include the following:

- A. The manufacturer's name, trademark, or other descriptive marking by which the organization responsible may be identified
- B. A distinctive catalog, model number or the equivalent
- C. "Listing covers ITC Rack Enclosure only" or "Listing covers ITC Rack Cabinet only".

MODEL DIFFERENCES:

General - All models are similar except for mechanical dimensions, i.e height, depth, width etc. Additionally, see ILL. 1.

R-TN-aUb-c - as follows

a - Denotes height in U (designation per EIA-310). Can be 12, 18, 24, 30, 35, 40, 42, 44, 45, 47, 48, 49, 51, 55, 57, 58 or 62

b - Denotes width in inches. Can be 24, 29 or 32

c - Denotes depth in inches. Can be 255 (25.5), 30, 36, 42, 45 or 48

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TITAN FRAME SERIES

FIG 1, 2

General - Fig. 1 shows an overall front view of a fully assembled Titan Frame cabinet Enclosure. Fig. 2 shows an overall side view of the unit.

1. Enclosure - Construction is painted or powdercoat cold-rolled steel 2.0 mm minimum thickness. Refer to MODEL DIFFERENCES for overall dimensions. See ILL. 1.
2. Main Protective Earthing Terminal - May be threaded holes or stud type. Located at bottom of enclosure.
3. Earthing Symbol Marking for Main Protective Earthing Terminal - An IEC 60417 marking symbol No. 5019 provided/stamped adjacent to earthing terminal.
4. Front/Rear Door (optional) - Painted steel. May be solid or perforated. May be single or double panel. Door is locking type with a single point keylock and include recessed metal handles. Sized to fit the enclosure.
5. Door Earthing Connection - Provided for front door and rear doors. Each connection consists of wire secured to door and frame by screw/external tooth lock washer combination. Lock washer located between ring terminal and door or frame. Consists of Items 5a - 5c.
 - 5a. Wire - R/C (AVLV2), 18 AWG min, green/yellow, rated 600 V.
 - 5b. Ring Terminal - Listed (ZMVV).
 - 5c. Insulated Quick-Connect - Listed (RFWV). One each male & female.
6. Side Panels (optional) - Painted steel. May be full-height single panel or half-height double panels. Secured by spring latches and key locks. See Fig. 2.
7. Shelves (optional) - Formed of 2.0 mm thick cold-rolled-steel. Fixed only.
8. Roof Panel (optional) - Painted steel, secured by screws. All 2 mm thick min. My contain knockouts in various shapes. When knockouts are removed, grommets (R/C, QMFZ2) are present to cover edges. Grommets are rated HB min.
9. Stabilizing Feet - Four provided. Screw down leveling stands located at each corner of the base.
10. Casters (optional, not shown) - Four may be provided.