

File E210002
Project 4787482409

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REPORT

on

POWER CIRCUIT AND MOTOR-MOUNTED APPARATUS

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WEXFORD, IRELAND

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Open Type, Switching Power Supply - Models TBLC06-105, TBLC06-112, TBLC06-124, TBLC15-105, TBLC15-112, TBLC15-124, TBLC25-105, TBLC25-112, TBLC25-124, TBLC50-112, TBLC50-124, TBLC75-112, TBLC75-124, TBLC90-112, TBLC90-124.

GENERAL:

These devices are open type switching power supplies for use in industrial control equipment.

MODEL VARIATIONS:

All models are similar in construction except for rating (output is factory set by jumpers/potentiometer setting).

RATING:

Electrical

	Nominal Input			Nominal Output (dc)		
Model	Vac	A	Hz	V dc	A	W
TBLC06-105	100-240	0.15 - 0.09	50/60	5	1.2	6
TBLC06-112		0.14 - 0.08		12	0.5	6
TBLC06-124		0.15 - 0.08		24	0.25	6
TBLC15-105	100-240	0.3 - 0.17	50/60	5	2.4	12
TBLC15-112		0.33 - 0.18		12	1.25	15
TBLC15-124		0.35 - 0.2		24	0.63	15
TBLC25-105	100-240	0.5 - 0.27	50/60	5	4.0	20
TBLC25-112		0.6 - 0.33		12	2.0	24
TBLC25-124		0.55 - 0.3		24	1.05	25
TBLC50-112	100-240	1.1 - 0.6	50/60	12	4.0	40
TBLC50-124		1.1 - 0.6		24	2.1	50
TBLC75-112	100-240	1.8 - 1.0	50/60	12	6.0	72
TBLC75-124		1.8 - 1.0		24	3.1	75
TBLC90-112	100-240	2.1 - 1.1	50/60	12	7.5	90
TBLC90-124		2.1 - 1.1		24	3.75	90

Environmental:

Maximum surrounding air temperature 55°C

Temperature de-rating is 2.5%/°C over 55°C to a maximum of 70°C

Pollution degree 2.

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

Special Considerations - The following items are considerations that were used when evaluating this product.

USL: Indicates investigation to the U.S. Standard UL 508, 17th edition.

CNL: Indicates investigation to Canadian National Standard(s) C22.2 No. 107-01-16, fourth edition.

Note: CNL = Canadian National Standards - Listed.
USL = United States Standards - Listed.

CONSTRUCTION DETAILS:

See Section General for additional details.

The device shall be constructed according to these details and the following description.

Tolerances - Unless specified otherwise, all indicated dimensions are nominal.

Soldered Connections - All soldered connections are mechanically secured before soldering. When hand soldered, leads on printed circuit boards are bent over prior to soldering.

Exception - Printed circuit board assemblies that are wave soldered or employ surface mount technology.

Printed Circuit Board - Unless otherwise indicated, R/C (ZPMV2/8), rated min. V-1, 130°C, meets UL796 Direct Support "All" .

Separation between Circuits - Internal wiring is positively separated from non-insulated live parts of another circuit.

Glue - R/C (QMFZ2/8), rated min. V-2 or Silicone material.

Spacings

The PWB spacings have been evaluated to UL 508, 17th edition, 4th edition, Table 36.3. CSA C22.2 No. 107.1-16, Table 8 for live parts spacing and acceptability pollution degree 2.

Spacings at other than field wiring terminals and PWB have been evaluated in accordance with UL508, 17th Ed, Table 36.3 for Clearance and Creepage and C22.2 No. 107 Table 6.

Markings

The following shall be marked on the equipment legibly and permanently with etched, molded, ink-stamped, silk-screened, or label that is a R/C PGDQ2 permanently secured to the enclosure.

1. Listee's name, Trademark, Identifier or File No. E210002.
2. Model no.
3. The electrical ratings including Input and Output Voltage, Current or Wattage/VA, Frequency.
4. The month and year of manufacture (date code, serial no. or the equivalent).
5. Ground symbol IEC 417, No. 5017 provided next to ground terminal.

The following marking shall be provided, and could be included in instruction sheets shipped with the device:

1. Unless otherwise specified, all input and output field wiring terminals shall be marked to indicate the proper connections that are to be made to each terminal;
 - i. Copper wire, 18-14 AWG (only are to be used)
 - ii. Torque (0.5 Nm or 4.4 lb-ins)
2. Pollution degree 2.
3. Maximum surrounding air temperature rating: 55°C.

Additional information may be marked either on the device or on a stuffer sheet. Referenced on the device and provided in each smallest shipping container.

Full report available for notified bodies only on request