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TESTING EUROPE

T6-52

RESISTANCE BATTERY 30 kW

KEYWORDS

T6-52 RESISTANCE BATTERY 30 kW, IEC 60884-1, 60335-1, IEC 62196-1…

COMPLIANCE

It is constructed in compliance with IEC 60884-1, 60335-1, IEC 62196-1…

INTRODUCTION

T6-52 RESISTANCE BATTERY is intended for loading of power supply units and for limiting and regulation of alternating and direct currents in experimental, measuring and testing field. Many different tests of switches, cables, plugs, socket outlets, vehicle connectors, vehicle inlets, connectors, lampholders, ... can be performed.

Free standing unit with 24 pieces of fixed wire tube resistors, each having resistance of 0,57 Ohm. Resistors are installed in 4x6 field levels for better air circulation. For bigger power dissipation battery can be air cooled by (built in) 2 powerful blowers. Battery is equipped with different type of bridges by which different serial and/or parallel connections for accomplished to achieve requested resistance/current adjustment. **Resistors can be also selected according to customer requirements.**

DESIGN

Free-standing skeleton made of rectangular anodized sectional aluminum profiles, with 4 swivel rollers, two of them with breaks. All sides are covered with aluminum sheets, powder coated with black color (to enable better heat absorption and cooling), so it is Non-sensitive, scratch-resistant

All parts of mechanism are corrosion protected.

TECHNICAL SPECIFICATION

Number of resistors:	24 pcs
Resistance of each resistor:	0,57 ohm
Resistor type :	Coudoint BC4CXXS0R57
Resistor material:	Chromium-aluminum
Coefficient of resistivity (vs temperature):	max 100 ppm/deg C
Insulation resistance (resistor coil / housing):	min 100Mohm/DC500 V
Insulation voltage (resistor coil / housing):	1500 Vac/50Hz
Inductance of each resistor:	14 uH
Acceptable max power with cooling:	30 kW
Max continuous temperature:	375 deg C
Nominal voltage:	440Vac, 350V DC
Nominal current /100 duty cycle:	42 A
Dimensions (WxDxH):	70 x 52 x 92 cm
Weight	112 kg

Imax/100 duty cycle: 42A
Short time duty T1 =1s, T2= 1350s: 500A
Instantaneous discharge: 136kJ

This occurs when there is a quick discharge through the resistor – theoretically instantaneous, practically a few tenths of a second – which is not repeated, at least until the resistance coil is back to its initial temperature.

Intermittent periodic duty (d)

Cycle time T(s)	15	15	15	60	60	60
d=T1/T	15%	30%	50%	15%	30%	50%
I (A)	115	70	56	110	77	58

BLOWERS:

2 pcs: dia. 300 mm

Maximum long-term power consumption of battery:

with blowers 30000 W

WARNINGS:

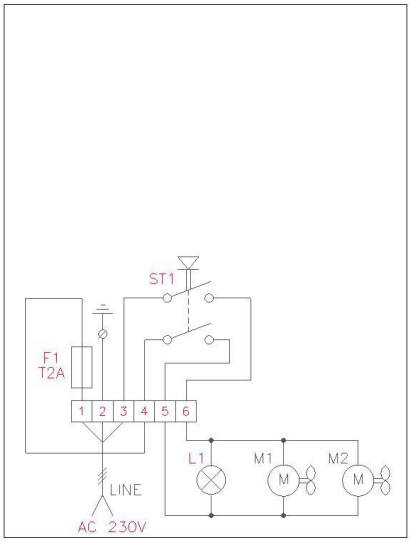
ONLY QUALIFIED PERSONEL THAT UNDERSTAND THE HAZARDS CAN HANDLE THE RESISTANCE BATTERY.

ALL PARTS OF HOUSING CAN GET VERY HOT SO DO NOT TOUCH IT TO AVOID HAZARD OF BURNS.

ALL CONNECTION TERMINALS ARE EQUIPPED WITH DOORS TO PROTECT THE PERSONEL AGAINST CONTACT WITH LIVE PARTS. BEFORE ENERGIZING THE BATTERY, THE DOORS SHOULD BE ALWAYS CLOSED.

ALWAYS DISCONNECT THE CABLES (DE-ENERGIZE THE CIRCUIT) BEFORE OPENING THE DOORS.

EXTERNAL GROUNDING OF APPROPRIATE CROSS-SECTION SHALL BE ALWAYS CONNECTED TO GROUNDING TERMINAL ON THE HOUSING.



Warranty: 2 years
Support by E-mail: support@testing.si
On line Skype VIDEO Support: Testing_support, matejsimonic

We will be glad to help you solve your problems and to hear any feedback from you.

The equipment described here is subject to redesign without notice. The change will not impair the function of apparatus its characteristics or the price.

Fig. 1: Picture shows how it is possible to change different kinds of serial/parallel connections of resistors to achieve different currents/resistances. Bridges/links are fixed with M8 robust screws, that also enable connection of high current cables with larger cross-sections.