BE SWITCHCRAFT

Verification methods according to AS/NZS 61439.1:2016

ITEM NO.1 – STRENGTH OF MATERIAL AND PARTS

RESISTANCE TO CORROSION – Clause 10.2.2

Resistance to Corrosion Test in accordance with:

AS/NZS 61439.1:2016
IEC 62262:2002; IEC 60068-2-75:2014; IEC60068-2-30:2005; IEC60068-2-11:1981
Item: Complete Assembly
Test type: Damp, heat and salt mist, cyclic;
Severity A-1 cycle of damp, heat and salt mist
Damp heat cycle: 6 x 24 cycles
Salt mist cycle: 2 x 24 cycles, constant spray +35°C;
5% NaCl concentration by weight
Duration: 8 days

NEUTRAL SALT SPRAY TEST (NSS):

Door Hinges and Swing Handles

190Hrs test, October 2019 as per AS2331.3.1
Parameters: 35°C ±2°C
Collection Rate: 1 ml/h to 2 ml/h; NaCl concentration – 50 ±10 g/L
Results: Maintained functionality.

By: Austest Laboratories
Report No. 0904BESSWI262

MECHANICAL IMPACT – Clause 10.2.6

IK07 & IK10 TEST IN ACCORDANCE WITH IEC62262:

Mechanical Impact test in accordance with:

IEC 62262:2001 and IEC60068-2-75:2014.

Test item was mounted vertically to a flat panel to replicate real life installation. Impact were applied to the front, top, bottom and side (2) faces at (5) locations on each face.

IK7:
- Test type: Spring Hammer,
- Impact Energy: 2J (Front, top, bottom and side (2) faces).
- 5 impacts per accessible face.

By: Austest Laboratories
Report No. 0904BESSWI262

IK10:
- Test type: Pendulum Hammer,
- Impact Energy: 20J (Front, top, bottom and side (2) faces).
- 5 impacts per accessible face.

By: Austest Laboratories
Report No. 0731BESLVE262

Verification methods according to AS/NZS 61439.1:2016

ITEM NO.1 – STRENGTH OF MATERIAL AND PARTS

LIFTING – Clause 10.2.5

LIFTING TEST AS/NZS 61439.1:2016

This procedure applies to the safe work practices that must be followed when performing crane lifting of a Switchboard.

Procedure:

1. Each section of Switchboard to be lifted shall be equipped with components or weights to achieve a weight of 1.25 times its maximum shipping weight.
2. Lifted with doors closed.
3. From standstill position, the ASSEMBLY shall be raised smoothly to a height of (1±0.1) m without any movement.
4. Lower the switchboard down.
5. Repeat the previous test two times after which the ASSEMBLY is raised and suspended for 30 minutes at a height of (1±0.1) m without any movement.
6. Lower the switchboard down.
7. The ASSEMBLY shall be raised from a standstill position to a height of (1±0.1) m and moved (10±0.5) m horizontally, then lowered to standstill position. This sequence shall be carried out three times, each shall be carried out within 1 minute.

After Test, with the weights in place, the ASSEMBLY shall show no cracks or permanent distortions visible to normal vision, which could impair any of its characteristics.

Test Report: QM F84
Switchboard weight = 350kg
Additional weight = 125kg (1.35 times switchboard weight exceeding test criteria)

BE Switchcraft switchboards can be found throughout Australia, from Parliament House in Canberra through to major hospitals, commercial buildings and sporting stadiums across the country. For over 5 decades we have built a reputation on trust, integrity, innovation and delivering on our commitments. Leading electrical contractors and engineers choose BE Switchcraft because of our ability to deliver a wide range of products and services that are renowned for their design, build quality and outstanding long-term support.

BE Switchcraft Pty Ltd
1182 Old Port Road, Royal Park
South Australia 5007

Telephone: +61 8 8346 2781
Facsimile: +61 8 8340 1799
Email: info@beswitchcraft.com.au

beswitchcraft.com.au