



MLT Inverters
103 Garfield Rd
7708 Kenilworth

1st August 2018

Suitably interlocked change-over switch as used in the MLT Inverters Oasis range

The Oasis range of inverters utilize the Lovato BF09 contactor internally. This contactor adheres to the City of Cape Town's Requirements for small-scale embedded generation criteria documentation dated 21 August 2017, specifically Appendix 4 in the following manner:

- a. The switch provides feedback of its position to the inverter so that if the contacts fail to operate or malfunction use of the inverter mode will be impossible.
- b. The requirements of SANS 10142-1 Section 7.12.2.5 (Mains is disconnected before the inverter is started) is adhered to.
- c. It is a separate, controllable switch, internally installed within the inverter. It adheres with SANS / IEC 60947-6-1 and the following product specifications: Static transfer systems (STS): SANS / IEC 62310-3, Automatic transfer systems (ATS): SANS / IEC 60947-6-1, Manual isolation, tie and transfer switches (MTS): SANS / IEC 60947-3.
- d. The switch is rated to withstand a lightning impulse voltage (BIL) > 4 kV at 1,2/50 μ s in accordance with SANS / IEC 60947-1 (Tables H.1 and 12).
- e. The transfer is a break-before-make (open transition) – no transient cross-conduction occurs during transfer. The transfer time of the switch is > 20 ms.
- f. The contactor gap of the switch is 8mm, which exceeds 4 mm, in accordance with SANS 60950-1, S 2.10.3.3 and Table 2K for a fixed installation with overvoltage category 2.