

# Supplier Declaration of Conformity (SDoC)

(in accordance with ISO/IEC 17050-1:2004)

# MODULAR

**SDoC Identification Number : 004**

**Issuer details:**

Modular Limited Ltd  
40 Connal Street, Woolston  
Christchurch 8023  
New Zealand  
NZ Company No: 9429037413927  
Telephone: 03 943 7826  
www.modular.co.nz

**Product: Low-voltage switchgear and controlgear assembly**

**Product Type/Model:**

Modular, 800 A switchboard panel  
with four outgoing circuits : 100A,160A,250A,250A  
(330mm Deep Range)

**Description/Ratings:**

Current Rating  $I_{nA}$ : 800A  
Main Switch: 800A  
Busbar Rating: 800A  
IP Rating: 54  
Rated peak withstand Current Ipk: 36kA  
Rated Operational Voltage Ue: 230/400V - 240/415V 50Hz  
Rated Diversity factor (RDF): 0.7 (560A)  
Rated Insulation Voltage Ui: 2000 V 50Hz  
Rated impulse Withstand Voltage Uimp: 6kV

**Standard/Document:**

The product listed above is in conformity with the following Standard(s)/Document(s):

AS/NZS: 61439.1:2016, Annex D Table D.1 List of design verification to be performed  
AS/NZS: 61439.2:2016, CL10 Design verification  
AS/NZS: 61439.3:2016, CL10 Design verification

**Test reports/Certificates:**

No.	Characteristic to be verified	Clause or Subclause	Tested	Comparison with a reference design	Assessment	Test Report (s) / Comments
1	Strength of Material and parts:	10.2				
	Resistance to corrosion	10.2.2	✓			PowerLab Ltd Report N PL 1761
	Properties of insulating materials:	10.2.3				
	Thermal stability	10.2.3.1	✓			PowerLab Ltd Report N PL 1761
	Resistance to abnormal heat and fire due to internal electric effects	10.2.3.2	✓			PowerLab Ltd Report N PL 1761
	Resistance to UV radiation	10.2.4				N/A - indoor enclosures
	Lifting	10.2.5	✓			Modular Report Number: 001
	Mechanical impact	10.2.6	✓			PowerLab Ltd Report N PL 1761

	Marking	10.2.7	✓			Modular Report Number: 002
2	Degree of protection of enclosures	10.3	✓			Parkside Laboratories Ltd. Report N 5309
3	Clearances	10.4	✓			PowerLab Ltd Report Number: PL1761- 2
4	Creepage Distances	10.4	✓			PowerLab Ltd Report Number: PL1761- 2
	Protection against electric shock and integrity of protective	10.5				
5	Effective continuity between the exposed conductive part of the assemble and the protective circuit	10.5.2	✓			Parkside Laboratories Ltd. Report 10069-00
	Short circuit withstand strength of the protective circuit	10.5.3	✓			PowerLab Ltd Report Number: PL1761- 2
6	Incorporating of switching devices and components	10.6			✓	PowerLab Ltd Report Number: PL1761- 2
7	Internal electrical circuits and connections	10.7			✓	Modular Report Number: 003
8	Terminals for external conductors	10.8			✓	Modular Report Number: 004
	Dielectric Properties:	10.9				
9	Power-frequency withstand voltage	10.9.2	✓			PowerLab Ltd Report Number: PL1827
	Impulse withstand voltage	10.9.3	✓			PowerLab Ltd Report Number: PL1827
10	Temperature-rise limits	10.10			✓	Modular Report Number: 005
11	Short-circuit withstand strength	10.11		✓		PowerLab Ltd Report Number: PL1827
12	Electro magnetic compatibility (EMC)	10.12	✓			PowerLab Ltd Report Number: PL1827
13	Mechanical operation	10.13	✓			PowerLab Ltd Report Number: PL1827

**Name:** Paul Hawkins

**Position:** Director

**Date:** 1/11/2023



Signature of Authorised Person