

Supplier Declaration of Conformity (SDoC)

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

MODULAR

SDoC Identification Number : 002

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:

Description/Ratings:

Modular, 630 A switchboard panel with three 250 A outgoing circuits	<table border="0"> <tr> <td>Current Rating I_{nA}:</td> <td>630A</td> </tr> <tr> <td>Main Switch:</td> <td>630A</td> </tr> <tr> <td>Busbar Rating:</td> <td>630A</td> </tr> <tr> <td>IP Rating:</td> <td>54</td> </tr> <tr> <td>Rated peak withstand Current</td> <td>36kA</td> </tr> <tr> <td>Ipk: Rated Operational Voltage U_e:</td> <td>230/400V - 240/415V 50Hz</td> </tr> <tr> <td>Rated Diversity factor (RDF)</td> <td>0.7 (440A)</td> </tr> <tr> <td>Rated Insulation Voltage U_i:</td> <td>2000 V 50Hz</td> </tr> <tr> <td>Rated impulse Withstand Voltage U_{imp}:</td> <td>6kV</td> </tr> </table>	Current Rating I_{nA} :	630A	Main Switch:	630A	Busbar Rating:	630A	IP Rating:	54	Rated peak withstand Current	36kA	Ipk: Rated Operational Voltage U_e :	230/400V - 240/415V 50Hz	Rated Diversity factor (RDF)	0.7 (440A)	Rated Insulation Voltage U_i :	2000 V 50Hz	Rated impulse Withstand Voltage U_{imp} :	6kV
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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	✓			PowerLab Ltd Report Number: PL1827
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