



NAC/NAM/NAP-04-□□□ Safety test result

July 12, 2021  
NF DESIGN DEPT.

- NAC/NAM/NAP/NAH-06-□□□
- NAC/NAM/NAP/NAH-10-□□□
- NAC/NAM/NAP/NAH-16-□□□
- NAC/NAM/NAP/NAH-20-□□□
- NAC/NAM/NAP/NAH-30-□□□
- NAC/NAM/NAP/NAH-40-□□□
- NAC/NAM/NAP/NAH-50-□□□
- NAC/NAM/NAP/NAH-60-□□□

Approved : Tadayuki Noda

Prepared : Yuta Watanabe

| No. | Test item                                                | Conditions                                                                                                                                                                                       | Conditions of acceptability                                                                                                                                                                                                                                                                    | Result |
|-----|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1   | Overload test                                            | (1) Overload. 135% of current rating.<br>(2) Ambient temp. 25±5°C<br>(3) Test period. 1hour<br>(rated current ≤ 81A)                                                                             | (1) Evidence of ignition , sealant leakage , cracking , breakage , or similar physical damage is not shown.<br>(2) When a test voltage is applied , isolation resistance is not less than 3.5M Ω .<br>Test voltage<br>rated voltage ≤ 250V<br>: 250 V dc<br>rated voltage > 250V<br>: 500 V dc | Pass   |
| 2   | No ventilation test<br>(Only NAC/NAM/NAP/NAH-40/-50/-60) | (1) Rated current<br>(2) Ambient temp. 25±10°C<br>(3) Test period 48 hours                                                                                                                       | (1) No smoke, no fire.                                                                                                                                                                                                                                                                         | Pass   |
| 3   | Withstand voltage test<br>(High-pot test)                | (1) Input Not applied.<br>(2) Ambient temp. 25±10°C<br>(3) The applied voltage is 1.4 times of specifications.                                                                                   | (1) Insulation breakdown , flashover or electric arc is not occurred.                                                                                                                                                                                                                          | Pass   |
| 4   | Isolation resistance test<br>(Without code-224,-155)     | (1) Input Not applied.<br>(2) Ambient temp. 25±10°C                                                                                                                                              | (1) When a regulation voltage is applied, isolation resistance is 1.4 times of specifications.                                                                                                                                                                                                 | Pass   |
| 5   | Vibration/impact test                                    | Vibration (1) f=10~150Hz : 29.4m/s <sup>2</sup><br>(2) 3 minutes period<br>(3) 60 minutes<br>along X, Y and Z axis<br><br>Impact (1) 294.2m/s <sup>2</sup> 11ms<br>(2) Once each X, Y and Z axis | (1) No degradation of electric characteristics after test.<br>(2) No crack at solder joint.<br>(3) No marked damage of appearance.                                                                                                                                                             | Pass   |