



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0016

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Scott Littler

Mailing Address: 6700 Tower Circle, Suite 700, Franklin, TN 37067

Telephone: (615) 267-9407

Email: scott.littler@se.com

Product Information

Product Name: Panelboards

Product Type: Panelboards

Product Model Number: Square D NEMA Power Panelboards Type HC*, CP and QMB and Lighting Panelboards Type NF / NQ (see Certified Product Listing tables)

General Description: Panelboards are integrated, low voltage, power and control systems and may include Powerlink, PowerLogic, and other interior components (see Certified Major Sub-Component tables). Sheet metal framed enclosures come in NEMA Type 1, 1A, 2, 3R, 4, 4X, 5 and Type 12 ratings.

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: TRU Compliance

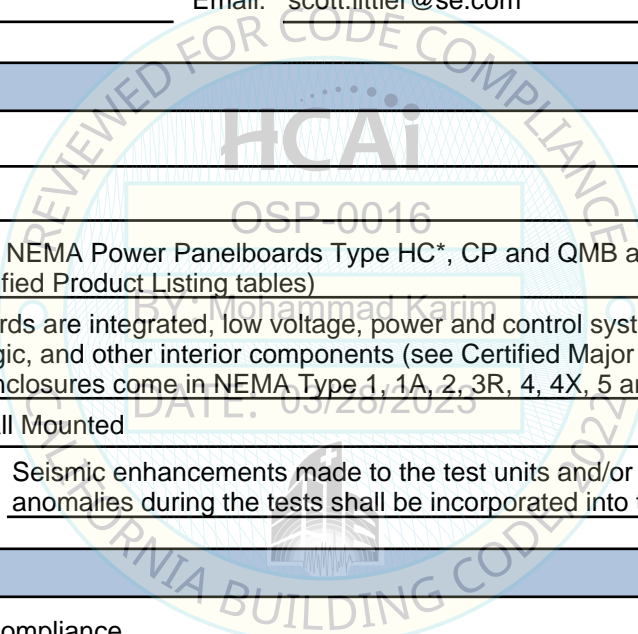
Contact Person: Daniel Zentner

Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702

Telephone: (541) 292-5839

Email: dzentner@structint.com

Title: Program Manager





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES
Name: Mehrshad Ketabdar California License Number: S6105
Mailing Address: 316 E Dexter St, Covina, CA 91723
Telephone: (669) 946-2838 Email: mketabdar@structint.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

Testing Laboratory

Company Name: APPLIED TECHNICAL SERVICES, INC. (ATS)
Contact Person: David Common
Mailing Address: 1049 Triad Court, Marietta GA 30062
Telephone: (678) 444-2908 Email: DavidC@atslab.com

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 7522-93513
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)
Contact Person: Greg Mason
Mailing Address: 7800 Highway 20 West, Huntsville AL 35806
Telephone: (256) 837-4411 Email: Greg.Mason@nts.com

Company Name: QUALTECH/CURTISS WRIGHT/TRENTEC
Contact Person: Jerry Newberry
Mailing Address: 4600 East Tech Drive, Cincinnati OH 45245
Telephone: (513) 528-7900 Email: jnewberry@curtisswright.com





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.43 (z/h = 1), 0.88 (z/h = 0)

SDS (Design spectral response acceleration at short period, g) = 1.91 (z/h = 1), 1.96 (z/h = 0)

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

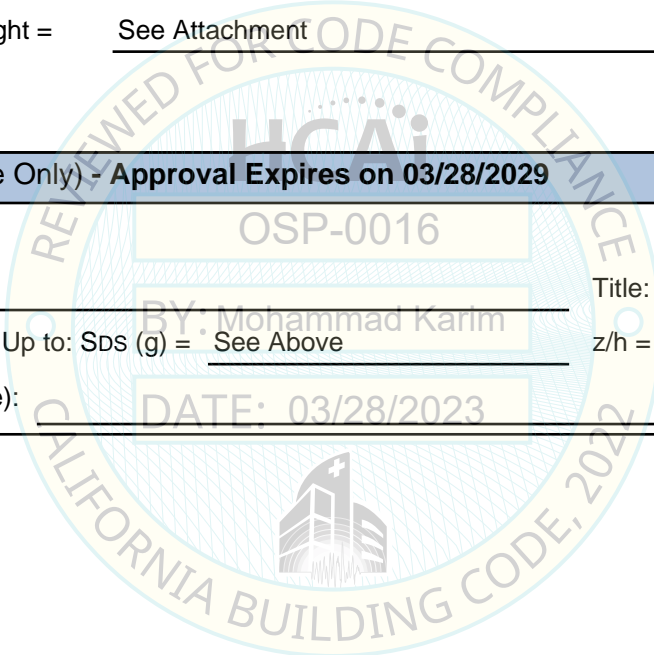
HCAI Approval (For Office Use Only) - Approval Expires on 03/28/2029

Date: 3/28/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 03/28/2023



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2001379-CR-001-R1



| | |
|---|----------------|
| Manufacturer: Schneider Electric | TABLE 1 |
| Model Line: NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | |

Certified Product Construction Summary:
Panelboards are integrated, low voltage, power and control systems. CP, QMB and HC power panelboards use the same family of enclosures. Enclosures are constructed of either carbon steel (CS) sheet with UL-CSA listed acrylic/alkyd baked enamel finish or TGIC powder coat or stainless steel (SS) sheet.

Certified Options Summary:
NEMA Type 1, 1A, 2, 3R, 4, 4X, 5 or 12. Optional side extensions and top extensions listed in Table 3. Height and width does not include optional extensions.

Mounting Configuration:
Wall mounted - rigid
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 **Seismic Certification Limits:** $S_{DS} = 1.91 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 1.96 g$ $z/h = 0.0$

| Model Line | Model | Dimensions (in) | | | Weight (lb) | Notes | UUT |
|-------------------|-------|-----------------|--------------------|--------------------------|-----------------------------|-----------------------------|---------|
| | | Depth | Width ¹ | Max. Height ² | | | |
| Power Panelboards | CP | 9.5 | 26.0 | 86.0 | 388 | 15-1200A, 48V DC / 600V AC | 10 |
| | | 9.5 | 26.0 | 86.0 | 625 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 10.0 | 26.0 | 92.0 | 645 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 12.0 | 26.0 | 86.0 | 625 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 13.5 | 28.0 | 86.0 | 725 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 13.5 | 28.0 | 86.0 | 725 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 8.0 | 32.0 | 86.0 | 650 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 9.5 | 32.0 | 86.0 | 690 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 11.0 | 32.0 | 86.0 | 710 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 11.0 | 32.0 | 86.0 | 710 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 12.0 | 32.0 | 86.0 | 690 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 12.0 | 32.0 | 91.0 | 710 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 9.5 | 44.0 | 86.0 | 614 | 15-1200A, 48V DC / 600V AC | 9 |
| | | 9.5 | 44.0 | 86.0 | 848 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 12.0 | 44.0 | 86.0 | 848 | 15-1200A, 48V DC / 600V AC | Interp. |
| | | 14.6 | 44.0 | 86.0 | 816 | 15-1200A, 48V DC / 600V AC | 2 |
| | 14.6 | 44.0 | 86.0 | 848 | 15-1200A, 48V DC / 600V AC | Interp. | |
| | 14.6 | 44.0 | 86.0 | 848 | 15-1200A, 48V DC / 600V AC | Interp. | |
| | QMB | 11.5 | 38.0 | 96.0 | 656 | 15-1200A, 250V DC / 600V AC | 8 |
| | QMB | 11.5 | 38.0 | 96.0 | 762 | 15-1200A, 250V DC / 600V AC | Interp. |
| QMB | 15.0 | 38.0 | 96.0 | 782 | 15-1200A, 250V DC / 600V AC | Interp. | |
| QMB | 15.0 | 38.0 | 96.0 | 782 | 15-1200A, 250V DC / 600V AC | 1 | |

Notes:
1. Width does not include optional 14" enclosure side extensions.
2. Maximum height does not include optional 12" enclosure box extensions.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2001379-CR-001-R1



| | |
|---|----------------|
| Manufacturer: Schneider Electric | TABLE 1 |
| Model Line: NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | |

Certified Product Construction Summary:
Panelboards are integrated, low voltage, power and control systems. CP, QMB and HC power panelboards use the same family of enclosures. Enclosures are constructed of either carbon steel (CS) sheet with UL-CSA listed acrylic/alkyd baked enamel finish or TGIC powder coat or stainless steel (SS) sheet.

Certified Options Summary:
NEMA Type 1, 1A, 2, 3R, 4, 4X, 5 or 12. Optional side extensions and top extensions listed in Table 3. Height and width does not include optional extensions.

Mounting Configuration:
Wall mounted - rigid
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 **Seismic Certification Limits:** $S_{DS} = 1.91 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 1.96 g$ $z/h = 0.0$

| Model Line | Model | Dimensions (in) | | | Weight (lb) | Notes | UUT |
|-------------------|---------------------------------|-----------------|--------------------|-----------------------------|-------------|-----------------------------|---------|
| | | Depth | Width ¹ | Max. Height ² | | | |
| Power Panelboards | HCJ, HCM, HCP, HCR ³ | 9.5 | 26.0 | 86.0 | 625 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 10.0 | 26.0 | 92.0 | 645 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 12.0 | 26.0 | 86.0 | 625 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 13.5 | 28.0 | 86.0 | 725 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 13.5 | 28.0 | 86.0 | 725 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 8.0 | 32.0 | 86.0 | 650 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 9.5 | 32.0 | 86.0 | 690 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 11.0 | 32.0 | 86.0 | 710 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 11.0 | 32.0 | 86.0 | 710 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 12.0 | 32.0 | 86.0 | 690 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 12.0 | 32.0 | 91.0 | 710 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 9.5 | 42.0 | 98.0 | 528 | 15-1200A, 250V DC / 600V AC | 5 |
| | | 9.5 | 42.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 12.0 | 42.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 12.0 | 42.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 12.0 | 42.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 13.0 | 42.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 9.5 | 44.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 12.0 | 44.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| | | 14.6 | 44.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. |
| 14.6 | 44.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | Interp. | | |
| 14.6 | 44.0 | 86.0 | 816 | 15-1200A, 250V DC / 600V AC | 2 | | |
| 9.5 | 44.0 | 86.0 | 848 | 15-1200A, 250V DC / 600V AC | 6 | | |

Notes:
1. Width does not include optional 14" enclosure side extensions.
2. Maximum height does not include optional 12" enclosure box extensions.
3. J, M, P, or R corresponds to the molded case circuit breaker frame size used in panelboard.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001379-CR-001-R1



| | | |
|---|--|----------------|
| Manufacturer: Schneider Electric | Table Description: Panelboard Interiors | TABLE 4 |
| Model Line: NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | | |

| | | | |
|--------------------------------|--------------------------------------|-------------------------------|-------------|
| Building Code: CBC 2022 | Seismic Certification Limits: | $S_{DS} = 1.91 g$ $z/h = 1.0$ | $I_P = 1.5$ |
| | | $S_{DS} = 1.96 g$ $z/h = 0.0$ | |

| Component Type | Manufacturer | Model | Description | Notes | UUT |
|---------------------|--------------------|--------------|------------------|-------------------|---------|
| Panelboard Interior | Schneider Electric | NQ Interior | NQ8442B2C | 225A, 42 circuit | 3 |
| | | | NQ ¹ | | Interp. |
| | | NF Interior | NQ442L4C | 400A, 42 circuit | 13 |
| | | | NF466L2 | 250 A, 66 circuit | 4 |
| | | | NF ¹ | | Interp. |
| | | | NF454L2CCL | 400A, 54 circuit | 12 |
| | | | NF ¹ | | Interp. |
| | | | NF442L8C | 800A, 42 circuit | 7 |
| | | CP Interior | CP1886N4F2 | 400A | 10 |
| | | | CP ¹ | | Interp. |
| | | QMB Interior | CP32868N44F6C | 1200A | 9 |
| | | | 012788399-005-01 | 800A | 8 |
| | | | ... ¹ | | Interp. |
| | | | 379257990010001 | 800A | 1 |
| HC Interior | HCP20566 | 600A | 5 | | |
| | HC ¹ | | Interp. | | |
| | HCR548612U | 1200A | 2 | | |
| | HCRU548612U | 1200A | 6 | | |

Notes:
1. Panelboard interior ID numbers are custom generated at the time of customer ordering. They do not correspond to a unique configuration. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001379-CR-001-R1



| | | |
|---|---|----------------|
| Manufacturer: Schneider Electric | Table Description: Electrical Components | TABLE 5 |
| Model Line: NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | | |

| | | | |
|--------------------------------|--------------------------------------|-------------------------------|-------------|
| Building Code: CBC 2022 | Seismic Certification Limits: | $S_{DS} = 1.91 g$ $z/h = 1.0$ | $I_P = 1.5$ |
| | | $S_{DS} = 1.96 g$ $z/h = 0.0$ | |

| Component Type | Manufacturer | Model | Description | Weight (lbs.) | Notes | UUT |
|--|--------------------|----------------|---------------------|---------------|-------|---------|
| Molded Case Circuit Breaker / Switch | Schneider Electric | QOB320 | 15-100A, 120-240V | 1 | | 3 |
| | | QO* | 10-150A, 120-240V | 1 | | Interp. |
| | | E* | 15-125A, 120-600V | 4 | | Interp. |
| | | FA*, FH* | 15-100A, 208-600V | 5 | | Interp. |
| | | B* | 15-125A, 208-600V | 4 | | Interp. |
| | | H* | 15-150A, 208-600V | 5 | | Interp. |
| | | J* | 70-250A, 208-600V | 5 | | Interp. |
| | | Q* | 70-250A, 70-250V | 16 | | Interp. |
| | | LA*, LH* | 200-400A, 208-600V | 16 | | Interp. |
| | | L* | 70-600A, 208-600V | 16 | | Interp. |
| | | M* | 300-800A, 208-600V | 29 | | Interp. |
| | | P* | 100-1200A, 208-600V | 32 | | Interp. |
| | | R* | 240-1200A, 208-600V | 52 | | Interp. |
| | | RJA36120 | 240-1200A, 208-600V | 52 | | 2, 6 |
| Plug on Lug Kits | Schneider Electric | SL400 | 10-1200A, 208-600V | 10 | | 10 |
| | | SL*, S33* | 10-1200A, 208-600V | 10-42 | | Interp. |
| | | S33930 | 10-1200A, 208-600V | 42 | | 2 |
| Surge Protector (SPD) Lighting ¹ | Schneider Electric | SSP* | 120-240V | 8 | | Interp. |
| | | SSP02BIA24PBQ1 | 120-240V | 8 | | 11 |
| Surge Protector (SPD) Lighting or Power ² | Schneider Electric | *IMA* | 120-600V | 3 | | Interp. |
| | | HL4IMA12C1 | 480V | 22 | | 2 |

Notes:

- All Lighting Surge Protection Devices are structurally identical, the only difference is rating and software.
- All Lighting and Power Surge Protection Devices are structurally identical, the only difference is rating and software.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2001379-CR-001-R1



| | |
|---|----------------|
| Manufacturer: Schneider Electric | TABLE 2 |
| Model Line: NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | |

Certified Product Construction Summary:
Panelboards are integrated, low voltage, power and control systems. NQ and NF lighting panelboards use the same family of enclosures. Enclosures are constructed of either carbon steel (CS) sheet with UL-CSA listed acrylic/alkyd baked enamel finish or TGIC powder coat or stainless steel (SS) sheet.

Certified Options Summary:
NEMA Type 1, 1A, 2, 3R, 4, 4X, 5 or 12. Optional side extensions and top extensions listed in Table 3. Height and width does not include optional extensions.

Mounting Configuration:
Wall mounted - rigid
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 **Seismic Certification Limits:** $S_{DS} = 1.91g \quad z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 1.96g \quad z/h = 0.0$

| Model Line | Model | Dimensions (in) | | | Weight (lb) | Notes | UUT |
|----------------------|-------|-----------------|--------------------|--------------------------|------------------|---------------------------|------------------|
| | | Depth | Width ¹ | Max. Height ² | | | |
| Lighting Panelboards | NQ | 5.0 | 8.5 | 62.0 | 90 | 10-225A, 48V DC / 240V AC | 3 |
| | | 5.8 | 14.0 | 38.0 | 95 | 10-225A, 48V DC / 240V AC | Interp. |
| | | 6.0 | 20.0 | 44.0 | 97 | 10-600A, 48V DC / 240V AC | 11 |
| | | 5.8 | 20.0 | 86.0 | 297 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 6.5 | 20.0 | 86.0 | 258 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 6.0 | 20.0 | 86.0 | 297 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 6.0 | 20.0 | 86.0 | 297 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 8.8 | 20.0 | 86.0 | 297 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 5.8 | 20.0 | 92.0 | 300 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 8.8 | 20.0 | 92.0 | 300 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 5.8 | 26.0 | 86.0 | 290 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 8.8 | 26.0 | 92.0 | 300 | 10-600A, 48V DC / 240V AC | Interp. |
| | | 8.8 | 26.0 | 92.0 | 300 | 10-600A, 48V DC / 240V AC | 7 |
| | | NF | 5.6 | 8.6 | 85.0 | 160 | 10-250A, 600V AC |
| | 5.8 | | 20.0 | 86.0 | 297 | 10-800A, 600V AC | Extrap. |
| | 6.5 | | 20.0 | 86.0 | 258 | 10-800A, 600V AC | 4 |
| | 6.0 | | 20.0 | 86.0 | 297 | 10-800A, 600V AC | Interp. |
| | 6.0 | | 20.0 | 86.0 | 297 | 10-800A, 600V AC | Interp. |
| | 8.8 | | 20.0 | 86.0 | 297 | 10-800A, 600V AC | Interp. |
| | 5.8 | | 20.0 | 92.0 | 300 | 10-800A, 600V AC | Interp. |
| | 8.8 | | 20.0 | 92.0 | 300 | 10-800A, 600V AC | Interp. |
| | 5.8 | | 26.0 | 86.0 | 290 | 10-800A, 600V AC | Interp. |
| 8.8 | 26.0 | | 92.0 | 300 | 10-800A, 600V AC | Interp. | |
| 8.8 | 26.0 | 92.0 | 300 | 10-800A, 600V AC | 7 | | |

Notes:
1. Width does not include optional 14" enclosure side extensions.
2. Maximum height does not include optional 12" enclosure box extensions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2001379-CR-001-R1



| Manufacturer: Schneider Electric Model Line: NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | | | | | | | | |
|--|-------------------------------------|--------------------------|--|-------------|-----------------------|---------------------|------------|----------------|
| UUT | Unit Description (mounting) | Report Number (UUT #) | Testing Lab | Year Tested | ISO 17025 Accredited? | S _{DS} (g) | z/h | I _p |
| 1 | Power Panelboard – QMB Series | PR047058-TR-16A (UUT1) | NTS - Huntsville | 2016 | Yes | 2.78 3.64 | 1.0 0.0 | 1.5 |
| 2 | Power Panelboard – I-Line Series | PR047058-TR-16A (UUT2) | NTS - Huntsville | 2016 | Yes | 2.78 3.64 | 1.0 0.0 | 1.5 |
| 3 | Lighting Panelboard – NQ Series | PR047058-TR-16A (UUT3) | NTS - Huntsville | 2016 | Yes | 2.79 3.61 | 1.0 0.0 | 1.5 |
| 4 | Lighting Panelboard – NF Series | PR047058-TR-16A (UUT4) | NTS - Huntsville | 2016 | Yes | 2.79 3.61 | 1.0 0.0 | 1.5 |
| 5 | Power Panelboard – I-Line Series | PR047058-TR-16A (UUT5) | NTS - Huntsville | 2016 | Yes | 2.79 3.61 | 1.0 0.0 | 1.5 |
| 6 | Power Panelboard – I-Line Series | 58514R11-1 (UUT1) | NTS - Huntsville | 2011 | Yes | 2.20 3.26 | 1.0 0.0 | 1.5 |
| 7 | Lighting Panelboard – NF Series | 2Q007.0 (2Q007-02-01-01) | Qual Tech NP by Curtiss-Wright | 2002 | No ¹ | 2.33 3.43 | 1.0 0.0 | 1.5 |
| 8 | Power Panelboard – QMB Series | 0Q016.0 (0Q016-06-01-01) | Qual Tech NP by Curtiss-Wright | 2000 | No ¹ | 2.00 2.70 | 1.0 0.0 | 1.5 |
| 9 | Power Panelboard – I-Line CP Series | 70891R13 (UUT 2) | NTS - Huntsville | 2013 | Yes | 3.30 3.30 | 1.0 0.0 | 1.5 |
| 10 | Power Panelboard – I-Line CP Series | 70891R13 (UUT 3) | NTS - Huntsville | 2013 | Yes | 2.04 2.04 | 1.0 0.0 | 1.5 |
| 11 | Lighting Panelboard – NQ Series | D202932R2 (UUT 1) | Applied Technical Services, Inc. (ATS) | 2013 | Yes | 1.91 1.96 | 1.0 0.0 | 1.5 |

Notes:
 1. Curtiss Wright was not ISO 17025 accredited at the time of testing but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2001379-CR-001-R1



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 1 |
| Model Line: NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | |
| Model Number: Power Panelboard - QMB Series | |
| Serial Number: 379257990010001 | |
| Test Report: PR047058-TR-16A (UUT1) | |

| UUT Properties | | | | | | |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 782 | 15.0 | 38.0 | 96.0 | N/A | N/A | N/A |

| UUT Highest Passed Seismic Run Information | | | | | | | | |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|
| Building Code | Test Criteria | S _{DS} (g) | z/h | I _P | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2022 | ICC-ES AC156 | 2.78 | 1.0 | 1.5 | 4.45 | 3.34 | 2.43 | 0.97 |
| | | 3.64 | 0.0 | | | | | |

Product Construction Summary:
Low voltage 3-phase 480Y/277 VAC 3P 4W 60 Hz 800A QMB panelboard with a bottom fed main fusible switch and distribution feeder switches. NEMA Type 4/4x stainless steel enclosure (QM3896WPSSUL).

Test Mounting Details:



Options/Subcomponent Summary:

| Description | Part Number | Weight (lbs.) |
|--|-----------------|---------------|
| 800A/3-phase QMB panelboard interior with Copper bus | 379257990010001 | - |
| 800A/600V/3P Fusible Switch | QMB367W | 100 |
| 400A/600V/3P Fusible Switch | QMB365W | 87 |
| 100-60A/600V/3P/twin Fusible Switch | QMB363T32W | 30 |
| 200A/600V/3P Fusible Switch | QMB364W | 35 |
| 30A/600V/3P Fusible Switch | QMB361HW | 15 |
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UUT1 was wall mounted - rigid using four (4) 3/8"-16 Grade 5 bolts and flat washers secured at 25 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2001379-CR-001-R1



| | | |
|-----------------------|--|---------------------------------------|
| Manufacturer: | Schneider Electric | UUT 6 |
| Model Line: | NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | |
| Model Number: | Power Panelboard – I-Line Series | |
| Serial Number: | HCR548612U | |
| | | Test Report: 58514R11-1 (UUT1) |

| UUT Properties | | | | | | |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 848 | 9.5 | 58.0 | 86.0 | N/A | N/A | N/A |

| UUT Highest Passed Seismic Run Information | | | | | | | | | |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code | Test Criteria | S _{DS} (g) | z/h | I _P | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) | |
| CBC 2022 | ICC-ES AC156 | 2.20 | 1.0 | 1.5 | 3.52 | 2.64 | 2.17 | 0.87 | |
| | | 3.26 | 0.0 | | | | | | |

Product Construction Summary: Low voltage three phase I-Line panelboard with a 1200A main breaker and with branch breakers, NEMA Type 1 carbon steel enclosure (44W x 9.5D x 86H) with 14" side extension (14W x 9.5D x 86H).

Test Mounting Details:

Low voltage three phase I-Line panelboard with a 1200A main breaker and with branch breakers, NEMA Type 1 carbon steel enclosure (44W x 9.5D x 86H) with 14" side extension (14W x 9.5D x 86H).

Options/Subcomponent Summary:

| Description | Part Number | Weight (lbs.) |
|--|--------------|---------------|
| 1200A/3-phase I-Line Panelboard Interior | HCRU548612U | 275 |
| 1200A/600V R-Frame Molded Case Circuit Breaker | RJA36120 | 52 |
| 250A/600V J-Frame Molded Case Circuit Breaker | JLA36250U54X | 5 |
| 150A/600V H-Frame Molded Case Circuit Breaker | HJA26150 | 5 |
| 150A/600V L-Frame Molded Case Circuit Breaker | LLA36600U54X | 14 |
| 800A/600V P-Frame Molded Case Circuit Breaker | PJA36800 | 29 |
| 150A/600V H-Frame Molded Case Circuit Breaker | HLA36150U54X | 5 |
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UUT6 was wall mounted - rigid using sixteen (16) 3/8"-16 Grade 5 bolts and flat washers (8 in panel and 8 in side extension) secured at 30 lbf-ft torque.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2001379-CR-001-R1



| | | |
|-----------------------|--|------------------|
| Manufacturer: | Schneider Electric | <h2>UUT 12</h2> |
| Model Line: | NQ & NF (Lighting Panelboards); CP, QMB & HC (Power Panelboards) | |
| Model Number: | Lighting Panelboard – NF Series | |
| Serial Number: | NF454L2CCL | |
| Test Report: | | 56963R09 (UUT 1) |

| UUT Properties | | | | | | |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 140 | 6.0 | 20.0 | 50.0 | N/A | N/A | N/A |

| UUT Highest Passed Seismic Run Information | | | | | | | | |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|
| Building Code | Test Criteria | S _{DS} (g) | z/h | I _P | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2022 | ICC-ES AC156 | 2.12 | 1.0 | 1.5 | 3.43 | 2.54 | 2.29 | 0.92 |
| | | 3.43 | 0.0 | | | | | |

| | |
|---|-------------------------------|
| Product Construction Summary: | Test Mounting Details: |
| Low voltage three phase 480Y/277 VAC 3P 4W 60 Hz 250A NF Main Lug, Cu, panelboard with bottom fed main lugs and distribution feeder breakers with powerlink lighting controls. NEMA Type 1 carbon steel enclosure (MH50). | |

| Options/Subcomponent Summary: | | |
|---|-------------|---------------|
| Description | Part Number | Weight (lbs.) |
| 400A/3-phase/54 circuit NF Panelboard Interior | NF454L2CCL | 34 |
| 20A/480Y/277V E-Frame Miniature Circuit Breaker | ECB14020G3 | 2 |
| Powerlink Controller | NF3000G3 | 3 |
| Powerlink Control Bus - Left | NF21SBLG3 | 3 |
| Powerlink Control Bus - Right | NF21SBRG3 | 3 |
| Powerlink Power Supply | NF120PSG3 | 3 |
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UUT12 was wall mounted - rigid using four (4) 1/4"-20 Grade 5 bolts and flat washers secured at 7 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

