**NAGOYA WORKS** 

File No.: MF-S-194A Date of issue: 2025-1 Modified date: 2025-10

#### **MODELS: FR-D840**

#### **TITLE: EMC DATA EXAMPLE (FR-D840)**

EMC data example when using Mitsubishi Electric general-purpose inverter FR-D840.

#### **Conditions**

The measurement conditions were based on the 2nd Environment Category C3 specified in EN 61800-3 / IEC 61800-3.

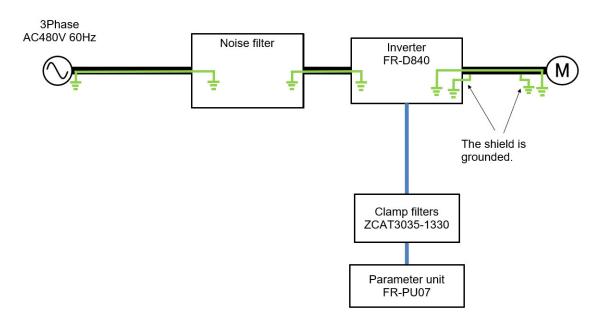
(NOTE)The following EMC data example is under the determination value of EN61800-3 as the most strictest condition.

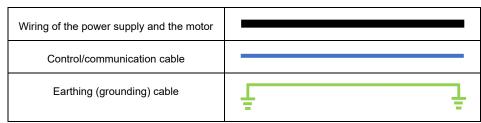
Output interconnection (motor) length: 20m

Output cable type : Shielded cable

Inverter frequency : 30Hz

Carrier frequency : Noted for each graph





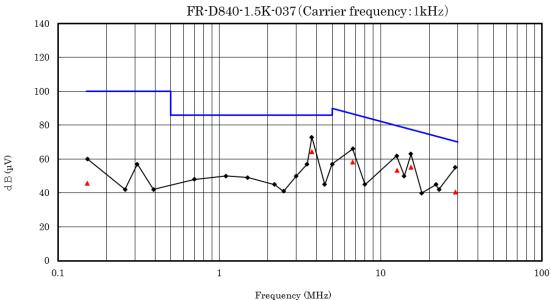
**NAGOYA WORKS** 

File No.: MF-S-194A Date of issue: 2025-1 Modified date: 2025-10

## MODELS: FR-D840

#### FR-D840-1.5K-037 FN3288-10-44-C34-R65

#### ◆ Conducted noise



- r requency (M)
- → Peak value
- —Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak

#### ◆ Radiated noise

FR-D840-1.5K-037(Carrier frequency: 1kHz)

90
80
70
60
20
10
100
100
100

Frequency (MHz)

- →Peak value
- Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak

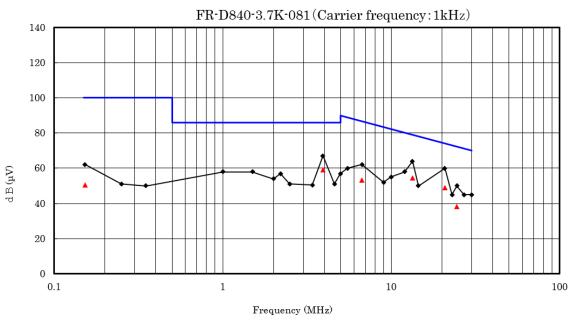
**NAGOYA WORKS** 

File No.: MF-S-194A Date of issue: 2025-1 Modified date: 2025-10

## MODELS: FR-D840

#### FR-D840-3.7K-081 FN3288-20-33-C35-R65

#### Conducted noise



- ←Peak value
- —Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak

#### ◆ Radiated noise

FR-D840-3.7K-081(Carrier frequency: 1kHz)

90
80
70
60
50
10
100
Frequency (MHz)

- →Peak value
- —Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak

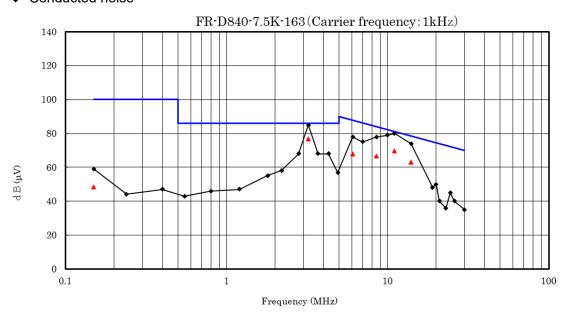
**NAGOYA WORKS** 

File No.: MF-S-194A Date of issue: 2025-1 Modified date: 2025-10

## MODELS: FR-D840

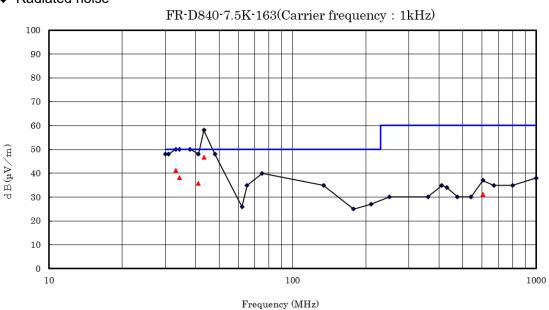
#### FR-D840-7.5K-163 FN3288-40-33-C35-R65

#### ◆ Conducted noise



- →Peak value
- —Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak

#### ◆ Radiated noise



- → Peak value
- Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak

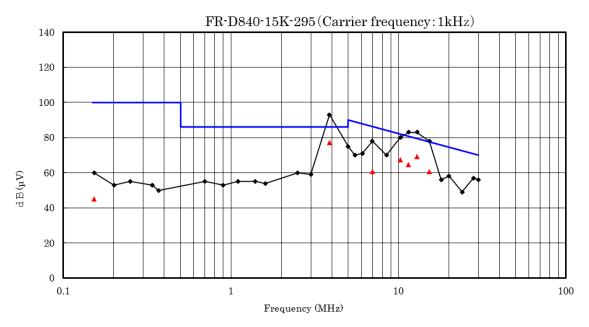
**NAGOYA WORKS** 

File No.: MF-S-194A Date of issue: 2025-1 Modified date: 2025-10

## MODELS: FR-D840

#### FR-D840-15K-295 FN3288-50-53-C35-R65

#### ◆ Conducted noise



- → Peak value
- Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak

## ◆ Radiated noise

FR-D840-15K-295(Carrier frequency: 1kHz)



- → Peak value
- —Quasi-peak level in EN 61800-3 2nd Environment Category C3
- ▲ Quasi-peak