# MITSUBISHI ELECTRIC Inverter Sales and Service

No. 645E

# FR-HAL Series General-Purpose Inverter Options Certified as Complying with the UL/CE/EAC Standards

Thank you for your continued patronage of Mitsubishi Electric drive control products. The FR-HAL series general-purpose inverter options will be compliant with the UL/CE/EAC standards, and their appearances will be changed.

# 1. Products Affected

FR-HAL-0.4K to 110K, FR-HAL-H0.4K to H560K

# 2. Details of the Change

The FR-HAL series will be compliant with the UL/CE/EAC standards. Due to this, the standards label will be added, the indications on the rating plate and packaging will be changed, and outline dimensions will be changed.

## (1) Addition of the standards label

The standards label with UL/CE/EAC marks will be added. (The label position differs depending on the capacity.)

Area	Before	After
Standards label	UL/CE/EAC marks not applied	UL/CE/EAC marks applied  CUL us  LISTED IND.CONT.EQ. BR2  UL mark  CE/EAC marks

Date of issue
of
issue

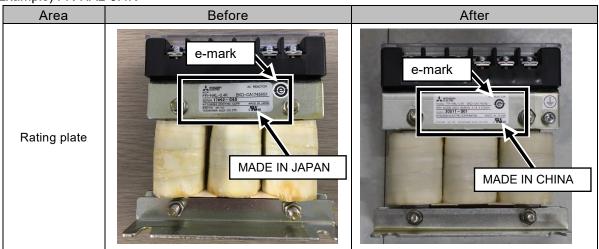
Title

(2) Change of the indications on the rating plate and packaging (for the FR-HAL-0.4K to 55K) The country of origin of the reactors will be changed from Japan to China.

Due to this, the country-of-origin indications on the rating plate and packaging of the FR-HAL-0.4K to 55K reactors will be changed.

An e-mark (mark indicating that no hazardous substances are present) will be printed on the rating plate.

Example) FR-HAL-0.4K

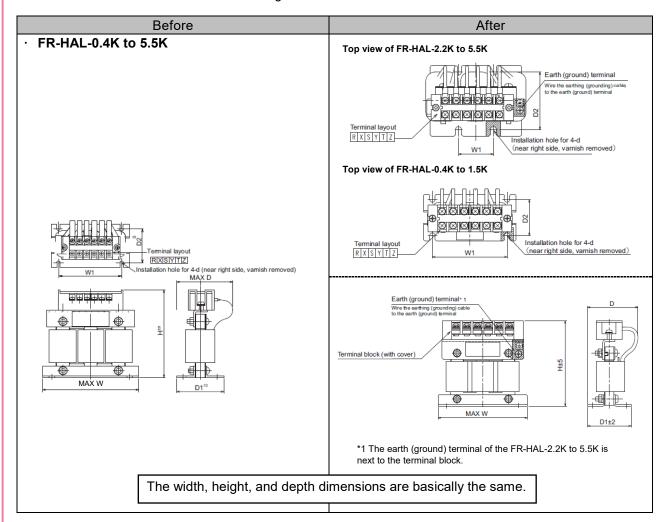


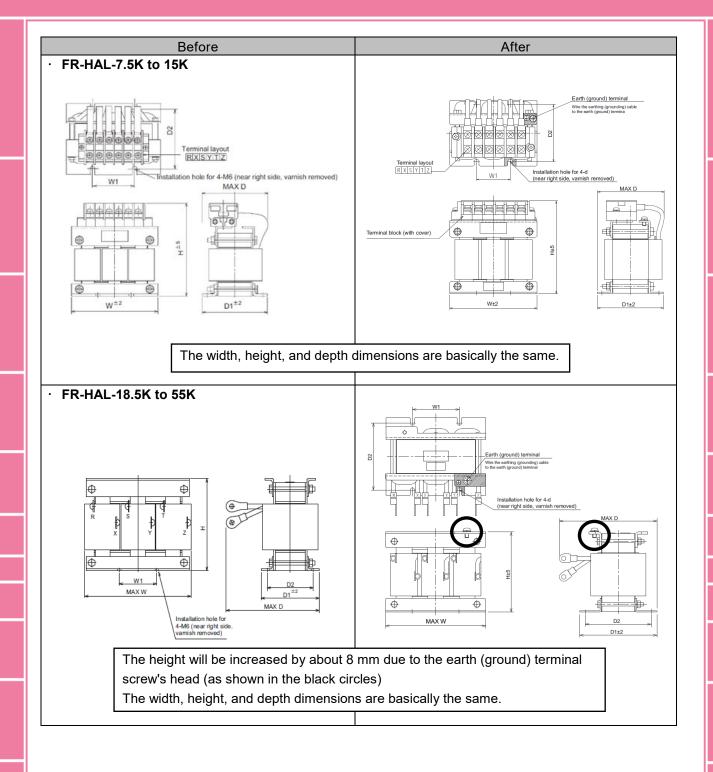
For the earthing (grounding) mark and the earth (ground) terminal, see (3) Change of outline dimensions.

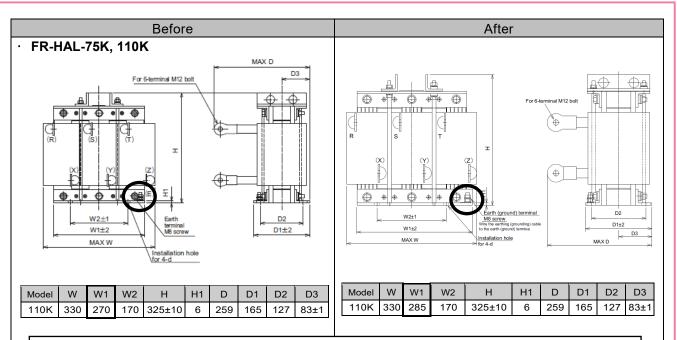


# (3) Change of outline dimensions

The outline dimensions will be changed as follows.







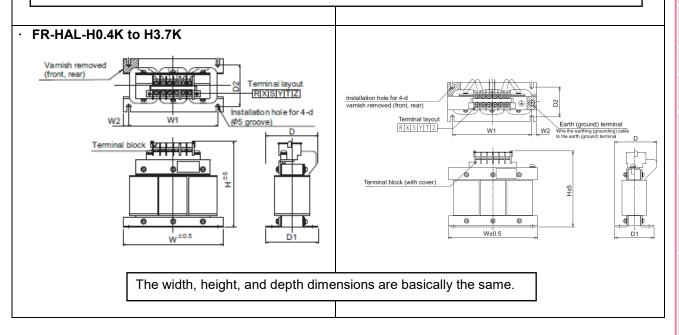
### FR-HAL-75K

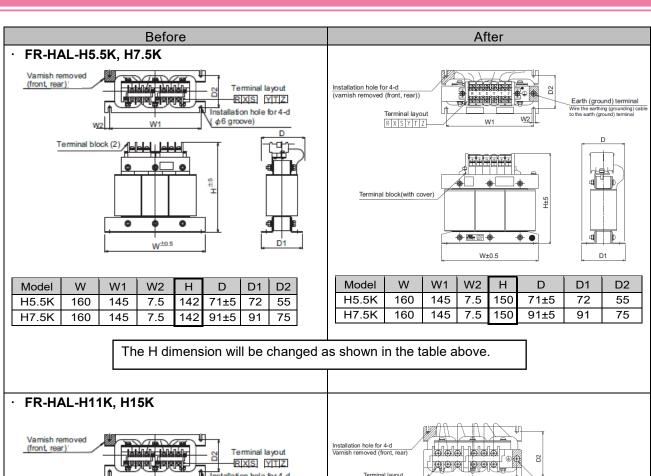
The width, height, and depth dimensions are basically the same.

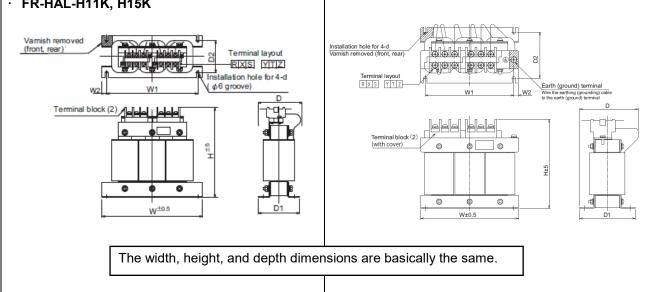
#### FR-HAL-110K

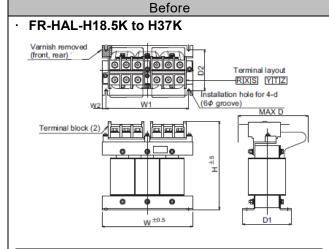
The W1 dimension will be changed as shown in the table above, as the metal sheet on which the earth (ground) terminal is mounted will be 15 mm longer. Due to the dimension change, the position of the earth (ground) terminal (in the black circle) will be moved 15 mm toward the edge of the metal sheet.

The distance from the edge of the metal sheet to the earth (ground) terminal will be the same.









Terminal block (with cover)	MAXD
₩±0.5	41 B

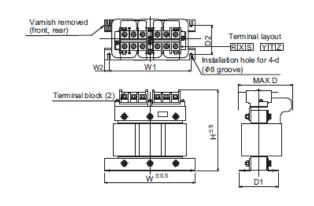
After

Model	W	W1	W2	Н	D	D1	D2
H18.5K	220	200	10	215	170	90	70
H22K	220	200	10	215	170	90	70
H30K	220	200	10	215	170	96	75
H37K	220	200	10	214	170	120	100

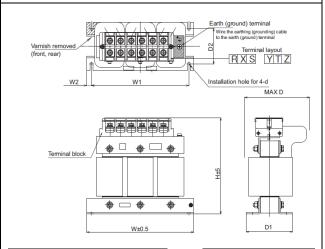
Model	W	W1	W2	Н	D	D1	D2
H18.5K	220	200	10	212	155	90	70
H22K	220	200	10	212	155	90	70
H30K	220	200	10	212	153	96	75
H37K	220	200	10	211	160	120	100

The H and D dimensions will be changed as shown in the table above.

# · FR-HAL-H45K, H55K

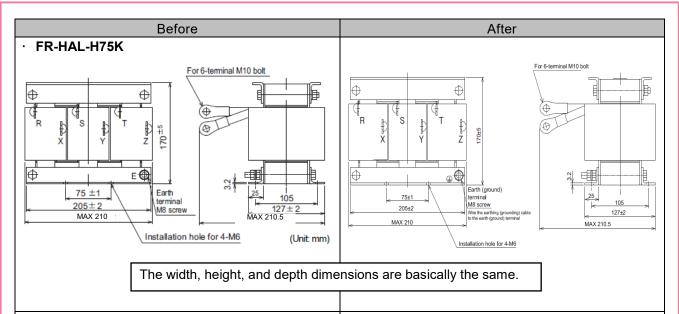


Model	W	W1	W2	Н	D	D1	D2
H45K	280	255	12.5	245	165	111	80
H55K	280	255	12.5	245	170	121	90

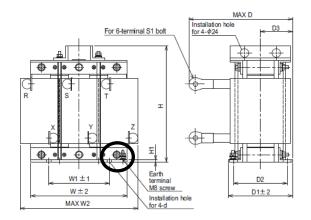


Model	W	W1	W2	Н	D	D1	D2
H45K	280	255	12.5	242	165	111	80
H55K	280	255	12.5	242	170	121	90

The H dimension will be changed as shown in the table above.

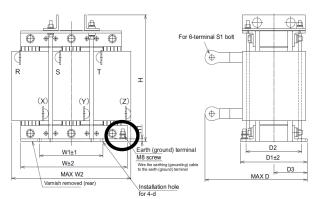


### · FR-HAL-H110K to H355K



Model	W	W2	W1	Н	H1	D	D1	D2	D3
H185K	270	330	170	325±10	6	271	180	142	90±1
H280K	270	330	170	325±10	6	321	230	192	115±1
H355K	270	330	170	325±10	6	346	230	192	115±1

# \* Outline dimensions of FR-HAL-H185K



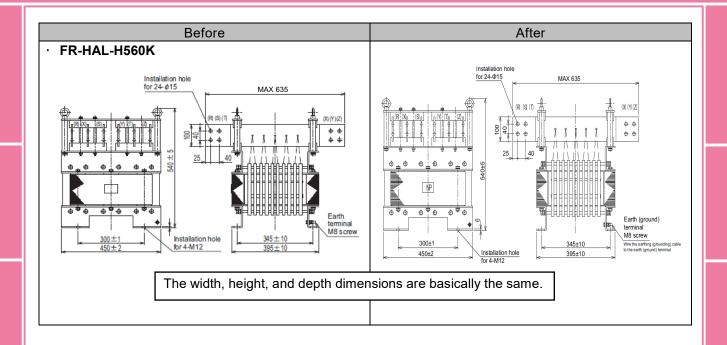
Model	W	W2	W1	Н	H1	D	D1	D2	D3
H185K	285	330	170	325±10	6	271	180	142	90±1
H280K	285	330	170	325±10	6	321	230	192	115±1
H355K	285	330	170	325±10	6	346	230	192	115±1

### FR-HAL-H110K

The width, height, and depth dimensions are basically the same.

### FR-HAL-H185K to H355K

The W dimension will be changed as shown in the table above, as the metal sheet on which the earth (ground) terminal is mounted will be 15 mm longer. Due to the dimension change, the position of the earth (ground) terminal (in the black circle) will be moved 15 mm toward the edge of the metal sheet. The distance from the edge of the metal sheet to the earth (ground) terminal will be the same.



# 3. Date of Change

The change will be sequentially applied to the products manufactured in October 2020 or later.

# 4. Product Identification

The product can be identified by the presence/absence of the UL, CE, and EAC marks.

# 5. Remarks

The outline dimensions of the products described in catalogs will be changed at the next revision of each catalog.