

# MITSUBISHI ELECTRIC Inverter

## Sales and Service

No. 503EA

### Addition of UL-Certified Combinations (FR-800/700 Series General-Purpose Inverters and Type E Combination Motor Controller) for Short-Circuit Protection

Thank you for your continued patronage of Mitsubishi Electric drive control products.  
The FR-800/700 series general-purpose inverters are now UL certified in combination with the MMP-T32 series Type E combination motor controller (manufactured by Mitsubishi Electric).

#### 1. Products Affected

FR-A800/F800 series inverters  
FR-E700/F700PJ/D700 series inverters

#### 2. Details of Change

The UL-certified combinations are as shown in the following table. (Check <Notes> on the next page.)  
In addition to T class fuses and molded-case circuit breakers (UL 489 certified MCCB), the MMP-T32 series Type E combination motor controller is also recommended to be used with the inverters for short-circuit protection.

This addition does not affect the functions and performance of the products.

#### Combinations

Type E combination motor controller (SCPD)		Inverter				Maximum main circuit voltage (VAC)	SCCR (kA)
Model	Nominal heater current (A)	Model	Capacity (kW)	Rated input AC voltage (VAC)	Input phase		
MMP-T32	8	FR-A820	0.4	200 to 240	Three-phase	480Y277*1	50
	13		0.75				
	18		1.5				
	25		2.2				
	32		3.7				
	4	FR-A840	0.4	380 to 500			50
	6.3		0.75				
	8		1.5				
	13		2.2				
	18		3.7				
	25	5.5	FR-F820	200 to 240			25
	32	7.5					
	8	0.75					
	13	1.5					
	18	2.2					
	25	3.7	FR-F840	380 to 500			50
	32	5.5					
	4	0.75					
	6.3	1.5					
	8	2.2					
13	3.7	FR-F840	380 to 500	25			
18	5.5						
25	7.5						
32	11						

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Type E combination motor controller (SCPD)		Inverter				Maximum main circuit voltage (VAC)	SCCR (kA)
Model	Nominal heater current (A)	Model	Capacity (kW)	Rated input AC voltage (VAC)	Input phase		
MMP-T32	1.6	FR-E720	0.1	200 to 240	Three-phase	480Y277*1	50
	4		0.2				
	6.3		0.4				
	10		0.75				
	13		1.5				
	18		2.2				
	25		3.7				
	4	FR-E740	0.4	380 to 480			50
	6.3		0.75				
	8		1.5				
	10		2.2				
	18		3.7				
	25		5.5				
	32	7.5	200 to 240	50			
	1.6	FR-D720					0.1
	4						0.2
	6.3	FR-D720 FR-F720PJ					0.4
	8						0.75
	13						1.5
	18						2.2
	25		3.7				
	2.5	FR-D740 FR-F740PJ	0.4	380 to 480			50
	4		0.75				
	6.3		1.5				
10	2.2						
18	3.7						
25	5.5						
32	7.5		25				

\*1: The 480Y277 rating means that the maximum circuit voltage is 480 V (phase-to-phase) or 277 V (phase-to-ground) when the transformer is wye-connected.

The maximum main circuit voltage (VAC) is applicable to the inverter used in combination with the Type E combination motor controller.

#### <Notes>

**Note that Mitsubishi Electric MMP-T32 series Type E combination motor controllers manufactured in April 2021 or later are not UL certified. Combinations of the inverters and the applicable Type E combination motor controllers without UL marking are not UL-certified combinations.**