Mitsubishi Electric AC Servo System

Sales and Service

No.24-14E

Addition of Branch Circuit Protection Devices to Comply with UL 61800-5-1 Standard for MR-J5 Series AC Servo Amplifiers

Thank you for your continued patronage of the Mitsubishi Electric AC servo system. For the MR-J5 series AC servo amplifiers, branch circuit protection devices to comply with the UL 61800-5-1 standard will be added.

1. Target Model

MR-J5 series with a capacity of 7 kW or less

2. Details of the Change

Class T/J/CC fuses will be added as branch circuit protection devices for systems to comply with UL 61800-5-1.

For fuse selection according to the power supply and capacity of the AC servo amplifiers to be used, refer to Table 1 and 2 below.

For information on conventionally supported semiconductor fuses, refer to the instruction manual "MR-J5 Safety Instructions and Precautions for AC Servos".

Table 1 Selection for servo amplifiers (200 V class)

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Servo amplifier (200 V class) (*1)	Class T/J/CC fuse (600 V) SCCR 5 kA	Minimum cabinet size		
MR-J5-10_	3 A			
MR-J5-20_	6 A	6188 cm ³		
MR-J5-40_	10 A			
MR-J5-60_	10 A			
MR-J5-70_ (T)/MR-J5-100_ (T)	10 A			
MR-J5-70_ (S)	15 A			
MR-J5-100_(S)	20 A			
MR-J5-200_ (T)	25 A			
MR-J5-200_ (S)/MR-J5-350_	35 A			
MR-J5-500_	45 A			
MR-J5-700_	60 A	150 % of the servo amplifier		
MR-J5W2-22_/MR-J5W2-44_ (T)/ MR-J5W3-222_ (T)	10 A	volume		
MR-J5W2-44_ (S)/ MR-J5W2-77_ (*2)/				
MR-J5W2-1010 /	15 A			
MR-J5W3-222_(S)/				
MR-J5W3-444_ (*2)				

^{*1. &}quot;(S)" means 1-phase 200 V AC power input and "(T)" means 3-phase 200 V AC power input.

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 $^{^{\}star}2$. For 1-phase 200 V AC input models, use the servo amplifier at 70 % or less of the effective load ratio.

Table 2 Selection for servo amplifiers (400 V class)

Servo amplifier (400 V class)	Class T/J/CC fuse (600 V) SCCR 5 kA	Minimum cabinet size
MR-J5-60_4_	6 A	
MR-J5-100_4_	10 A	
MR-J5-200_4_	10 A	150 % of the servo amplifier
MR-J5-350_4_	20 A	volume
MR-J5-500_4_	25 A	
MR-J5-700_4_	30 A	

3. Date of Application

The fuses listed can be used for the MR-J5 series regardless of the manufacture date of the servo amplifiers.

There will be no change in the servo amplifier.