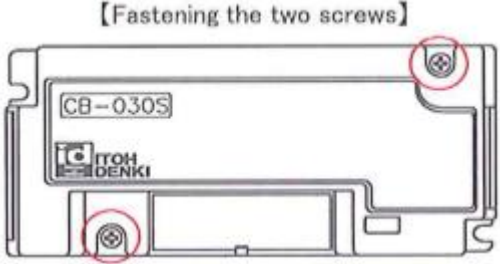
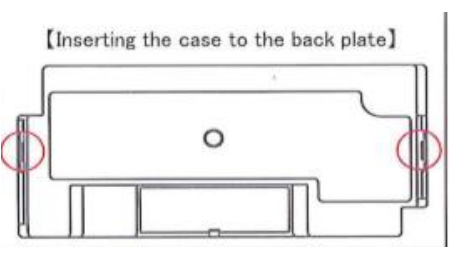


CB-030P vs. CBK-109FP

		CB-030P	CBK-109FP	
Improvement points:	Improvement 1	-----	Strengthen resistance against noise, static, and voltage spikes	
	Improvement 2	Standard (12P): CB-030 BR : N/A	Standard (12P): CBK-109F P/N BR (13P): CBK-109B P/N	
Function	Negative load control	NO	Yes	
		Over speeding due to decline	Speed control to keep set speed 1. Control the speed when the speed exceeds the set speed by 10% or more 2. Control the speed when the speed exceeds the set speed by 12% or more while accelerating or decelerating.	
	Characteristics of motor (based on a 55-speed code)	Speed (FPM)	Tangential Force (lb)	Rated Current (A)
		187.7	13.24	3.9
		98.1	14.81	2.7
26.9		17.51	1.4	
Brake	Standard	Dynamic brake	Dynamic brake → Servo lock brake Dynamic brake when error occurs	
	Mechanical	No	Dynamic brake → mechanical brake	
Protections	Back EMF	Error condition	Motor voltage over 40V → 2 sec. over 60V → 0.1 sec.	
		Recovery condition	Motor voltage under 30V → 1 sec.	
	Disconnected error	4 sec.	1 sec.	
	Lock time	4 sec.	0.5 sec	
	Lock error	Recovery condition RUN: OFF → ON Or DIR: ON → OFF → ON Or DIR: OFF → ON → OFF	Recovery will be the same steps as the CB-030. The CBK-109 will be able to recover 4 sec. after a lock error.	
Appearance	Size	Dimensions: 59 x 129 x 23 (mm)	Dimensions: 59 x 129 x 25 (mm) The CBK-109 is 2mm taller.	
	Case Fixing method			
	Switch cover	Rubber grommet for NPN-PNP switch	No switch cover	

