

**Input Fuse Selection Table for Drive Input I<sup>2</sup>t and NEC/CEC Branch Circuit Short Circuit Protection**  
**Product Covered: E7, F7 and P7 Drives**  
**Fuse Type: Semiconductor**

All E7, F7 and P7 Drives have UL and CSA evaluated motor overload protection built in. Motor overload protection is also provided in accordance with the NEC and CEC. Additional branch circuit overload protection is not required. In order to provide Drive input I<sup>2</sup>t protection and comply with UL, CSA, NEC and CEC branch circuit short circuit protection requirements, select one of the fuses listed below.

200V Series	Recommended		Alternate 1		Alternate 2	
Drive Model No. CIMR-E7* or CIMR-F7* or CIMR-P7*	Fuse Manufacturer	Model No.	Fuse Manufacturer	Model No.	Fuse Manufacturer	Model No.
20P4	Ferraz Shawmut	A60Q12-2	Ferraz Shawmut	A070GRB006T13	Bussmann	FWH-20A14F
20P7	Ferraz Shawmut	A60Q12-2	Ferraz Shawmut	A070GRB006T13	Bussmann	FWH-20A14F
21P5	Ferraz Shawmut	A60Q15-2	Ferraz Shawmut	A70QS25-22F	Bussmann	FWH-20A14F
22P2	Ferraz Shawmut	A60Q20-2	Ferraz Shawmut	6,900CPGRC14.51/25	Bussmann	FWH-25A14F
23P7	Ferraz Shawmut	A60Q30-2	Ferraz Shawmut	A70QS32-14F	Bussmann	FWH-45B
25P5	Ferraz Shawmut	A50P50-4	Ferraz Shawmut	A70QS50-14F	Bussmann	FWH-80B
27P5	Ferraz Shawmut	A50P80-4	Ferraz Shawmut	A50QS70-4	Bussmann	FWH-80B
2011	Ferraz Shawmut	A50P80-4	Ferraz Shawmut	A50QS100-4	Bussmann	FWH-100B
2015	Ferraz Shawmut	A50P125-4	Ferraz Shawmut	A50QS150-4	Bussmann	FWH-175B
2018	Ferraz Shawmut	A50P150-4	Ferraz Shawmut	A50QS175-4	Bussmann	FWH-200B
2022	Ferraz Shawmut	A50P150-4	Ferraz Shawmut	A50QS200-4	Bussmann	FWH-200B
2030	Ferraz Shawmut	A50P200-4	Bussmann	FWH-200B	Bussmann	FWH-225A
2037	Ferraz Shawmut	A50P250-4	Ferraz Shawmut	A30QS275-4	Bussmann	170M4610
2045	Ferraz Shawmut	A50P300-4	Ferraz Shawmut	A30QS350-4	Bussmann	FWH-350A
2055	Ferraz Shawmut	A50P350-4	Bussmann	FWH-400A	Bussmann	FWH-450A
2075	Ferraz Shawmut	A50P450-4	Ferraz Shawmut	A070URD33KI0550	Bussmann	FWH-500A
2090	Ferraz Shawmut	A50P600-4	Ferraz Shawmut	A70P600-4	Bussmann	FWH-600A
2110	Ferraz Shawmut	A50P600-4	Ferraz Shawmut	A70P700-4	Bussmann	FWH-700A

400V Series	Recommended		Alternate 1		Alternate 2	
Drive Model No. CIMR-E7* or CIMR-F7* or CIMR-P7*	Fuse Manufacturer	Model No.	Fuse Manufacturer	Model No.	Fuse Manufacturer	Model No.
40P4	Ferraz Shawmut	A60Q10-2	Ferraz Shawmut	A070GRB006T13	Ferraz Shawmut	A70QS16-14F
40P7	Ferraz Shawmut	A60Q10-2	Ferraz Shawmut	A070GRB006T13	Ferraz Shawmut	A70QS16-14F
41P5	Ferraz Shawmut	A60Q12-2	Ferraz Shawmut	6,900CPGRC14.51/25	Ferraz Shawmut	A70QS20-14F
42P2	Ferraz Shawmut	A60Q15-2	Ferraz Shawmut	A70QS25-22F	Ferraz Shawmut	A70QS20-14F
43P7	Ferraz Shawmut	A60Q20-2	Ferraz Shawmut	A70QS20-14F	Ferraz Shawmut	A70QS25-14F
44P0	Ferraz Shawmut	A60Q30-2	Ferraz Shawmut	A70QS32-14F	Ferraz Shawmut	A70QS40-14F
45P5	Ferraz Shawmut	A60Q30-2	Ferraz Shawmut	A70QS32-14F	Ferraz Shawmut	A70QS40-14F
47P5	Ferraz Shawmut	A60Q30-2	Ferraz Shawmut	A70QS40-14F	-	-
4011	Ferraz Shawmut	A70P50-4	Ferraz Shawmut	A50QS50-4	Bussmann	FWH-80B
4015	Ferraz Shawmut	A70P70-4	Ferraz Shawmut	A50QS80-4	Bussmann	FWH-100B
4018	Ferraz Shawmut	A70P80-4	Ferraz Shawmut	A50QS100-4	Bussmann	FWH-125B
4022	Ferraz Shawmut	A70P80-4	Ferraz Shawmut	A50QS100-4	Bussmann	FWH-125B
4030	Ferraz Shawmut	A70P100-4	Ferraz Shawmut	A50QS125-4	Bussmann	FWH-125B
4037	Ferraz Shawmut	A70P125-4	Ferraz Shawmut	A50QS125-4	Bussmann	FWH-150B
4045	Ferraz Shawmut	A70P150-4	Ferraz Shawmut	A50QS150-4	Bussmann	FWH-175B
4055	Ferraz Shawmut	A70P200-4	Ferraz Shawmut	A70QS200-4	Bussmann	FWH-200B
4075	Ferraz Shawmut	A70P250-4	Ferraz Shawmut	A50QS250-4	Bussmann	FWH-250A
4090	Ferraz Shawmut	A70P300-4	Ferraz Shawmut	A50QS300-4	Bussmann	170M4611
4110	Ferraz Shawmut	A70P350-4	Ferraz Shawmut	A50P350-4	Bussmann	170M4611
4132	Ferraz Shawmut	A70P400-4	Ferraz Shawmut	A70P500-4	Bussmann	170M5610
4160	Ferraz Shawmut	A70P450-4	Ferraz Shawmut	A70QS700-4	Bussmann	FWH-600A
4185	Ferraz Shawmut	A70P600-4	Ferraz Shawmut	A70QS700-4	Bussmann	FWH-700A
4220	Ferraz Shawmut	A70P700-4	Bussmann	FWH-800A	Bussmann	FWH-1000A
4300	Ferraz Shawmut	A70P900-4	Bussmann	FWH-1000A	Bussmann	FWH-1200A

\* Denotes letter A through Z