

External Fuse or Breaker and Wire Sizes for Washer-extractors MWR27J5 with Electric Heat (18 KW)

Table 1: Specifications (Largest motor: 3.0 HP)

Volt Code	Voltage (VAC) See note 1	Running Amps - See note 2	Phase	Cycles (Hz)	Fuse OR circuit breaker		Wire size for 50 ft (15 m) run (AWG/mm ²) See notes 4, 5
					Fuse (Amps) See notes 3, 5	Breaker (Amps) See notes 3, 5	
46	200	7	3	50	FRN70	70	6 / 2.50
62	220	7	3	50	FRN70	70	6 / 2.50
74	208/240	8 / 7	3	60	FRN70	70	6 / 2.50
82	380	4.5	3	50	FRS30	30	10 / 2.50
83	380	4.5	3	60	FRS30	30	10 / 2.50
84	400	4.5	3	50	FRS30	30	10 / 2.50
85	415	4.5	3	50	FRS30	30	10 / 2.50
88	440	3.5	3	50	FRS30	30	10 / 2.50
96	480	3.5	3	60	FRS30	30	10 / 2.50
99	600→480	3.5	3	60	FRS30	30	10 / 2.50

Notes:

- Not all voltages available in all models.
- Running amps are for the portion of the cycle with the highest, steady-state demand (after the motor is up to speed) and are approximate.
- If fuses are used, they must be Bussmann Fusetron or similar lag type. If standard circuit breakers are used, they must match the amperage rating listed in the "Breaker" column. If inverse time circuit breakers are used, they must match the characteristics (amperage rating) listed in the "Fuse" column. An over-sized fuse or breaker poses a fire hazard (see caution below). An under-sized fuse or breaker will trip needlessly.
- Wire size is per the USA National Electric Code. **Use wire size shown for runs up to 50 feet (15 meters). Use next larger size for runs 50 to 100 feet (15 to 30 m). Use wire two sizes larger for runs greater than 100 feet (30 m).** Under-sized wiring poses a fire hazard (see caution). This can also cause voltage drops even if the wire's current-carrying capacity exceeds that of the fuse/breaker. Voltage drops cause machine faults and reduce motor starting torque (e.g., a 5% voltage drop causes a motor to produce only 90% of rated torque). Voltage drop is greatest the instant the motor is energized, when highest torque is required.
- See document BFUUUF01 "External Fuse...Requirements" for more information.



CAUTION 1: **Fire hazard**—An over-sized fuse/circuit breaker or under-sized wiring can permit the wiring to overheat and cause a fire.

- Always use the fuse/circuit breaker and wire size specified here.

— End of BFRCDF04 —