



Fire Pump Controller D10650 Primary Resistor Reduced Voltage Starting

Primary Resistor Reduced Voltage is selected to meet local power utility limitations on inrush current or to minimize the size of a stand-by engine generator.

Primary Resistor type reduced Voltage controllers reduce the motor circuit voltage by inserting a resistor in the motor circuit during the motor starting period. A line contactor by-passes the resistor after a time delay. Starting current is 65 - 74% of across-the-line starting inrush (approximately 390- 400% rated motor full load amperes). The resistor design permits one 5-second starting operation in each 80 seconds for a period of not less than 1 hour per NFPA. This is a closed transition starting method.

4/7/2004

Without Transfer Switch		Schematic A10-10650-1					Design LVL "D"	
		Connection A10-10630-5					Design LVL "D"	
Circuit Breaker	Horsepower Range - 3 Phase						Dimensional Drawings	
Designation	200-208V	220-240V	380-400V	415V	440-480V	550-600V	Enclosure Type 2, 3R, & 12	
See Table 1	60Hz	60Hz	50/60Hz	50Hz	60Hz	60Hz	Enclosure Drawing	Weight (lbs)
B, C & D	5 - 50	5 - 60	5 - 100	5 - 100	5 - 125	5 - 125	A10-460317-2	350
B, C & D	60 - 100	75 -125	125 - 200	125 - 200	150 - 250	150 - 300	A10-460317-5	750
B, C & D	125 - 200	150 -250	250 - 400	250 - 350	300 - 500	350 - 500	A10-460317-6	850
E	5 - 50	5 - 60	5 - 60	5 - 75	5 - 75	5 - 125	A10-460317-2	350
E	60 - 100	75 - 125	75 - 200	100 - 200	100 - 250	150 - 300	A10-460317-5	750
E	125 - 200	150 - 250	250 - 400	250 - 450	300 - 500	350 - 500	A10-460317-6	850

With Transfer Switch		Schematic A10-10650-4T					Design LVL "D"		Transfer Switch Addition
		Connection A10-10630-5T					Design LVL "D"		A10-10600-4T
Circuit Breaker	Horsepower Range - 3 Phase						Dimensional Drawings		
Designation	200-208V	220-240V	380-400V	415V	440-480V	550-600V	Enclosure Type 2, 3R, & 12		
See Table 1	60Hz	60Hz	50/60Hz	50Hz	60Hz	60Hz	Enclosure Drawing	Weight (lbs)	
B, C & D	5 - 50	5 - 60	5 - 100	5 - 100	5 - 125	5 - 125	A10-460317-12	540	
B, C & D	60 - 100	75 -125	125 - 200	125 - 200	150 - 250	150 - 300	A10-460317-15	940	
B, C & D	125 - 200	150 -250	250 - 400	250 - 450	300 - 500	350 - 500	A10-460317-16	1040	
E	5 - 50	5 - 60	5 - 60	5 - 75	5 - 75	5 - 125	A10-460317-12	540	
E	60 - 100	75 - 125	75 - 200	100 - 200	100 - 250	150 - 300	A10-460317-15	940	
E	125 - 200	150 - 250	250 - 400	250 - 450	300 - 500	350 - 500	A10-460317-16	1040	

For Larger Horsepower Controllers & NEMA4 Enclosures Consult Factory

Job: _____

Motor Horsepower _____

Voltage Phase Frequency

_____ / _____ / _____

Controller Short Circuit Rating

_____ Symmetrical Amperes

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Circuit Breaker Designations for Normal Power Side of Controller				
Short-Circuit Rating Amperes RMS Symmetrical				
C.B. Designation	200-240V	380-460V	550-600V	
B	42K	30K	22K	
C	100K	100K	100K	
D	150K	150K	150K	
E	200K	200K	- -	

Emergency Side Short Circuit Current Rating, Amps RMS Symmetrical	Maximum HP at Rated Voltage			
	208	240	480	600
10,000	25	30	60	75
22,000	75	100	100	350
35,000	100	125	250	---
42,000	200	250	500	500