



Fire Pump Controller D10670 Part Winding Reduced Voltage Starting

Part Winding reduced voltage is selected to meet local power utility limitations on inrush current or to minimize the size of a stand-by engine generator.

Part Winding reduced voltage starters maintain a closed motor circuit during the transition from start to run. The motor must be a 2-winding type motor. The first winding is connected to the line to start and the second winding is connected in parallel by a second contactor, after a time delay. The starting line current is 65% of across-the-line starting inrush (approximately 390% rated motor full load amperes).

4/7/2004

Without Transfer Switch		Schematic A10-10670-1					Design LVL "D"	
		Connection A10-10670-5					Design LVL "D"	
Circuit Breaker	Horsepower Range - 3 Phase						Dimensional Drawings	
Designation See Table 1	200-208V 60Hz	220-240V 60Hz	380-400V 50/60Hz	415V 50Hz	440-480V 60Hz	550-600V 60Hz	Enclosure Drawing	Weight (lbs)
B, C & D	5 - 50	5 - 60	5 -125	5 - 150	5 -150	5 -200	A10-460317-1	230
B, C & D	60 - 150	75 - 200	150 - 300	200 - 350	200 - 400	250 - 450	A10-460317-3	420
E	5 - 50	5 - 60	5 -60	5 - 75	5 -75	5 -125	A10-460317-1	230
E	60 - 150	75 - 200	750 - 300	100 - 400	100 - 400	150 - 450	A10-460317-3	420
E								

With Transfer Switch		Schematic A10-10670-4T					Design LVL "D"		Transfer Switch Addition
		Connection A10-10670-5T					Design LVL "D"		A10-10600-4T
Circuit Breaker	Horsepower Range - 3 Phase						Dimensional Drawings		
Designation See Table 1	200-208V 60Hz	220-240V 60Hz	380-400V 50/60Hz	415V 50Hz	440-480V 60Hz	550-600V 60Hz	Enclosure Drawing	Weight (lbs)	
B, C & D	5 - 50	5 - 60	5 -125	5 - 150	5 -150	5 -200	A10-460317-11	420	
B, C & D	60 - 150	75 - 200	150 - 300	200 - 350	200 - 400	250 - 450	A10-460317-13	650	
E	5 - 50	5 - 60	5 -60	5 - 75	5 -75	5 -125	A10-460317-11	420	
E	60 - 150	75 - 200	750 - 300	100 - 400	100 - 400	150 - 450	A10-460317-13	650	
E									

For Larger Horsepower Controllers & NEMA4 Enclosures Consult Factory

Table 1

Job: _____

Motor Horsepower _____

Voltage Phase Frequency

/ /

Controller Short Circuit Rating

_____ Symmetrical Amperes

Joslyn Clark Controls, Inc.
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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