

#### Technical Information

		CA8-09	CA8-12			CA8-09	CA8-12	
Rated Insulation Voltage $U_i$ to IEC947-1	[V]	690V		Wye-Delta (Star Delta) 50 Hz	≤230V	[A]	20	20
	UL/CSA	[V]	600V		≤240V	[A]	20	20
Rated Impulse Voltage Withstand $U_{imp}$	[kV]	6		400V	[A]	15.5	15.5	
				415V	[A]	15.5	15.5	
Rated Voltage $U_e$ -Main Contacts				500V	[A]	12.4	12.4	
	AC 50/60Hz	[V]	230, 240, 400, 415, 500, 690	690V	[A]	8.9	8.9	
DC	[V]	24, 48, 110, 220, 440		230V	[kW]	5.5	5.5	
				240V	[kW]	5.5	5.5	
Operating Frequency for AC Loads	[Hz]	50/60Hz		400V	[kW]	7.5	10	
				415V	[kW]	7.5	11	
Switching Motor Loads				500V	[kW]	7.5	7.5	
				690V	[kW]	7.5	7.5	
Standard IEC Ratings				60 Hz	200V	[Hp]	3	5
				230V	[Hp]	3	5	
AC-2, AC-3, AC-4	230V	[A]	11.3	460V	[Hp]	7.5	10	
	240V	[A]	11.3	575V	[Hp]	7.5	10	
DOL & Reversing	400V	[A]	8.5					
	415V	[A]	8.5					
50Hz@60° C	500V	[A]	6.8					
	690V	[A]	4.9					
UL/CSA	230V	[kW]	3					
	240V	[kW]	3					
DOL & Reversing	400V	[kW]	4					
	415V	[kW]	4					
60Hz	500V	[kW]	4					
	690V	[kW]	4					
1∅	115V	[A]	9.8					
	230V	[A]	10					
3∅	115V	[HP]	0.5					
	230V	[HP]	1.5					
200V	200V	[A]	7.8					
	230V	[A]	6.8					
230V	460 V	[A]	7.6					
	575 V	[A]	6.1					
200 V	200 V	[HP]	2					
	230 V	[HP]	2					
460 V	460 V	[HP]	5					
	575 V	[HP]	5					
Maximum Operating Rate	AC2	[ops/hour]	300					
	At 9A for AC3; 20A for AC2/4	AC3	[ops/hour]	600				
Starting time $t_A = 0.25s$	AC4	[ops/hour]	300					
AC4 (200,000 Op. Cycles)	230V	[A]	3.9					
	240V	[A]	3.9					
50Hz	400V	[A]	3.6					
	415V	[A]	3.6					
230V	500V	[A]	3.2					
	230V	[kW]	0.75					
240V	240V	[kW]	0.75					
	400V	[kW]	1.5					
415V	415V	[kW]	1.5					
	500V	[kW]	1.5					
Max. Operating Rate		[ops/hour]	250					

  

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Wye-Delta (Star Delta)	≤230V	[A]	20	20	
	≤240V	[A]	20	20	
50 Hz	400V	[A]	15.5	15.5	
	415V	[A]	15.5	15.5	
	500V	[A]	12.4	12.4	
	690V	[A]	8.9	8.9	
	230V	[kW]	5.5	5.5	
	240V	[kW]	5.5	5.5	
	400V	[kW]	7.5	10	
	415V	[kW]	7.5	11	
	500V	[kW]	7.5	7.5	
	690V	[kW]	7.5	7.5	
60 Hz	200V	[Hp]	3	5	
	230V	[Hp]	3	5	
	460V	[Hp]	7.5	10	
	575V	[Hp]	7.5	10	
AC-1 Load, 3∅ Switching					
	Ambient Temperature 40° C	$I_e$	[A]	20	20
	230V	[kW]	8	8	
	240V	[kW]	8.3	8.3	
	400V	[kW]	14	14	
	415V	[kW]	14	14	
	500V	[kW]	17	17	
	690V	[kW]	24	24	
Ambient Temperature 60° C	$I_e$	[A]	16	16	
	230V	[kW]	6.4	6.4	
	240V	[kW]	6.7	6.7	
	400V	[kW]	11	11	
	415V	[kW]	12	12	
	500V	[kW]	14	14	
	690V	[kW]	19	19	
Continuous Current (UL/CSA)					
	General Purpose Rating (40° C)	Open	[A]	15	18
		Enclosed	[A]	15	18
Lighting Loads					
	Gas Dischrg.Lamps-AC-5a, 220...240VAC (40°C)	Open	[A]	18	18
		Enclosed	[A]	14.5	14.5
Single compensated	10kA	[μF]	750	750	
	Max. capacitance at prospective short circuit current available at the contactor	20kA	[μF]	400	400
		50kA	[μF]	~	~
Incandescent Lamps - AC-5b					
	Electrical endurance~100,000 operations				
230/240V	[A]	9.0	9.0		