

Available Short Circuit

TRANS-FORMER RATING 3Ø KVA AND IMPEDANCE %	MAXIMUM SHORT CIRCUIT KVA AVAILABLE FROM PRIMARY SYSTEM	208 VOLTS				240 VOLTS				480 VOLTS			
		NORMAL CONTINUOUS LOAD CURRENT IN AMPERES	INTERRUPTING CAPACITY TOTAL RMS AMPERES			NORMAL CONTINUOUS LOAD CURRENT IN AMPERES	INTERRUPTING CAPACITY TOTAL RMS AMPERES			NORMAL CONTINUOUS LOAD CURRENT IN AMPERES	INTERRUPTING CAPACITY TOTAL RMS AMPERES		
			TRANS-FORMER ALONE	50% MOTOR LOAD	COMBINED		TRANS-FORMER ALONE	50% MOTOR LOAD	COMBINED		TRANS-FORMER ALONE	50% MOTOR LOAD	COMBINED
450 3%	15000	417	12500	1100	13600	361	10800	1900	12700	180	5500	1000	6500
	25000		14300		15400		12300		14200		6200		7200
	50000		15800		16900		13700		15600		6800		7800
	100000		16600		17700		14200		16100		7200		8200
	150000		16800		17900		14500		16400		7300		8300
	250000		16900		18000		14800		16700		7400		8400
	500000		17000		18100		14900		16800		7450		8450
	Unlimited		17100		18200		15000		16900		7500		8500
225 4%	15000	625	13600	1500	15100	542	11700	3000	14700	271	5900	1200	7100
	25000		15800		17300		13700		16700		6800		8000
	50000		17600		19100		15200		18200		7600		8800
	100000		18300		19800		16000		19000		7900		9100
	150000		18800		20300		16200		19200		8200		9400
	250000		18900		20400		16300		19300		8300		9500
	500000		19000		20500		16400		19400		8350		9550
	Unlimited		19100		20600		16500		19500		8400		9600
300 5%	15000	834	14900	2100	17000	722	12900	3600	16500	361	.....	1800	.....
	25000		16700		18800		14600		18200		7300		9100
	50000		18600		20700		16100		19700		8100		9900
	100000		19600		21700		17000		20600		8500		10300
	150000		20000		22100		17400		21000		8700		10500
	250000		20300		22400		17600		21200		8800		10600
	500000		20500		22600		17900		21500		8900		10700
	Unlimited		20800		22900		18100		21700		9000		10800
500 5%	25000	1388	24800	3500	28300	1200	21500	6000	27500	600	10800	3000	13800
	50000		28900		32400		25100		31100		12500		15500
	100000		31500		35000		27300		33300		13700		16700
	150000		32500		36000		28200		34200		14100		17100
	250000		33300		36800		28900		34900		14500		17500
	500000		34000		37500		29500		35500		14800		17800
	Unlimited		34600		38100		30100		36100		15100		18100
	750 5½%		25000		2080		30600		5200		35800		1800
50000		37100	42300	32300		41300	16100	20600					
100000		41600	46800	36100		45100	18000	22500					
150000		43300	48500	37600		46600	18800	23300					
250000		44800	50000	39000		48000	19500	24000					
500000		46100	51300	40000		49000	20000	24500					
Unlimited		47300	52500	41000		50100	20500	25000					
1000 5½%		25000	2780	36500		7000	43500	2400		31700	12000	43700	
	50000	46300		53300	40200		52200		20100	26100			
	100000	53400		60400	46300		58300		23200	29200			
	150000	56300		63300	48800		60800		24400	30400			
	250000	58900		65900	51000		63000		25500	31500			
	500000	60900		67900	52800		64800		26400	32400			
	Unlimited	63200		70200	54700		66700		27400	33400			
	1500 5½%	25000								3600		39300	18000
50000		53200	71200		64500	82500		32300	41300				
100000		64500	82500		77900	95900		38900	47900				
150000		69500	87500		82000	100000		41100	50100				
250000		74000	92000										
500000		77900	95900										
Unlimited		82000	100000										
2000 5½%		25000											
	50000	31700		43700				31700		43700			
	100000	39400		51400				39400		51400			
	150000	44100		56100				44100		56100			
	250000	46800		58800				46800		58800			
	500000	50700		62700				50700		62700			
	Unlimited	54700		66700				54700		66700			

All computations are based on voltages, transformer impedances and motor loads, as indicated, including a factor of 1.25 for the dc component. For conditions differing from those given in these tables the short-circuit currents should be calculated.

The motor short-circuit contributions are computed on the basis of motor characteristics that will give five times normal current. For the 208 volt table, 50 percent motor load is assumed. For the 480 volt and 240 volt tables, 100 percent motor loads are assumed. For other percentages of motor load, the motor contribution to the short-circuit current will be in direct proportion.

Where the circuit voltage is less than 480 or 240 volts, the current values given should be multiplied by the ratio:  $\frac{480 \text{ or } 240}{\text{circuit voltage}}$