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# 3VA Molded Case Circuit Breaker

Series connected short circuit ratings

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# Siemens Molded Case Circuit Breakers

## Series connected short circuit ratings

The term “Series Connected Short Circuit Rating” refers to the application of series circuit breakers in a combination that allows downstream breakers to have lower individual interrupting ratings than the available fault current. This is permitted as long as the series combination has been tested and certified by UL. The Tables on these pages list specific main and branch breaker combinations that may be used for the short circuit interrupting ratings shown. No substitutions are permitted. All combinations shown have been tested and are UL Recognized. This information is provided as a reference tool only.

The interrupting rating of a circuit breaker is 5,000 rms symmetrical amperes and for a fused switch 10,000 rms symmetrical amperes, or as marked on the device, except for the series combination ratings shown on the following pages. Note: A load side circuit breaker may be a branch, submain, an integral main, or a remote main. The series combination interrupting rating shall not exceed that of the line side circuit breaker or fused switch or the marked short circuit rating indicated on the equipment.

**For verification of specific combination ratings, consult the UL Recognized Components Directory.**

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# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker

Series Rating	Main Breaker			Branch Breaker						
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts		
65,000	15-125	3VA51	SEAS	QP	QPH, BLH, BQH	1	15-70	120		
						2	15-125	120/240		
						3	15-125	240		
				QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2	1	15-30	120		
QAF2	QAF2, BAF2, QAF2N, QAFH2, BAFH2	1	15-20			120				
GFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2	1	15-20	120						
		85,000	15-125	3VA51	MEAS	QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2	1	15-30	120
QAF2	QAF2, BAF2, QAF2N, QAFH2, BAFH2, HQAF2, HBAF2							1	15-20	120
								QFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1
3VA41	SEAB					1	15-125			120
						2, 3	15-125	240		
3VA51	SEAS					1	15-125	120		
						2, 3	15-125	240		
ED	ED4	1	15-125	120						
		2, 3	15-125	240						
40-250	3VA52	MFAS	QP	QP, BL, BQ	1	15-70	120/240			
					2	15-125	120/240			
					3	15-100	240			
				QPH, BLH, BQH	1	15-70	120/240			
					2	15-125	120/240			
					3	15-100	240			
			QPF	QPF, BLF, QPHF, BLHF	2	15-60	120/240			
					QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2, HQPF2, HBLF2	1	15-30	120	
			QAF	QAF, BAF, QAFN, QAFH, BAFH			2	15-20	120/240	
					QAF2	QAF2, BAF2, QAF2N, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120	
			QFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2, HQFGA2, HBFGA2			1	15-20	120	
					100-250	3VA52	MFAS	EQ	EQ868#	2
			150-250	3VA52	MFAS	EQ	EQ869#	2	150-225	120/240
125-250	3VA52	MFAS	QPP	QPP, EQ948#, QPPH, HQPPEQ978#	2	125-225	120/240			
150-250	3VA52	MFAS	QN	QN, QNR, QNH, QNRH	2	150-200	120/240			
150-250	3VA52	MFAS	QS	QS, QSH, QSHH, HQS	2	100-225	120/240			
			QR2	QR2, QRH2, HQR2	2	100-250	240			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker						
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts		
85,000	40-250	3VA52	MFAS	3VA41	SEAB	1	15-125	120		
					SEAB	2, 3	15-125	240		
				3VA51	SEAS	1	15-125	120		
					SEAS	2, 3	15-125	240		
				ED	ED2	1	15-100	120		
					ED2	3, 2	15-100	240		
					ED4	1	15-125	120		
					ED4, ED6	2, 3	15-125	240		
				50-250	3VA52	MFAS	DG	NDGB	2, 3	50-150
	100-250	3VA52	MFAS	FG	NFGB	2, 3	100-250	240		
	70-250	3VA52	MFAS	FD	FD6-A, FXD6-A	2, 3	70-250	240		
	200-400	3VA53	MJAS	QPF2	QPF2, BLF2, QPHF2, BLHF2, HQPF2, HBLF2		1	15-30	120	
					QAF2	QAF2, BAF2, QAFH2, BAFH2, HQAF2, HBAF2		1	15-20	120
						QFG2	QFGA2, BFGA2, QFGAH2, BFGAH2, HQFGA2, HBFGA2		1	15-20
				QS	QS, QSH, QSHH, HQS		2	100-225	120/240	
				QR2	QR2, QRH2, HQR2		2, 3	100-250	240	
				3VA41	SEAB	1	15-125	120		
					SEAB	2, 3	15-125	240		
				3VA51	SEAS	1	15-125	120		
					SEAS	2, 3	15-125	240		
				ED	ED4	1	15-125	120		
					ED4	2	15-125	240		
					ED4	1	15-100	120		
					ED4	2	15-100	240		
					ED4, ED6	3, 2	15-125	240		
					ED6	2	15-100	240		
				ED6	3	15-125	240			
				DG	NDGB		2, 3	50-150	240	
				FG	NFGB		2, 3	100-250	240	
	FD	FD6-A, FXD6-A		2, 3	70-250	240				
	250-400	3VA53	MJAS	JG	NJGA, NJJA	2, 3	250-400	240		
	200-400	3VA53	MJAS	JD	JXD2-A, JD6-A, JXD6-A, JD6-A, SJD6-B	2, 3	200-400	240		
	450-600	3VA54	MLAS	QPF2	QPF2, BLF2, QPHF2, BLHF2, HQPF2, HBLF2		1	15-30	120	
QAF2					QAF2, BAF2, QAFH2, BAFH2, HQAF2, HBAF2		1	15-20	120	
				QFG2	QFGA2, BFGA2, QFGAH2, BFGAH2, HQFGA2, HBFGA2		1	15-20	120	
QS					QS, QSH, QSHH, HQS		2	100-225	120/240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
85,000	450-600	3VA54	MLAS	QR2	QR2, QRH2, HQR2	2, 3	100-250	240
				3VA41	SEAB	1	15-125	120
					SEAB	2, 3	15-125	240
				3VA51	SEAS	1	15-125	120
					SEAS	2, 3	15-125	240
				ED	ED4	1	15-125	120
					ED4, ED6	2, 3	15-125	240
				DG	NDGB	2, 3	50-150	240
				FG	NFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A	2, 3	70-250	240
				JG	NJGA, NJJA	2, 3	250-400	240
				JD	JXD2-A, JD6-A, JXD6-A, JD6-A, SJD6-B	2, 3	200-400	240
				LG	NLGB	2, 3	400-600	240
				LD	LD6-A	2, 3	250-600	240
					LXD6-A	2, 3	450-600	240
	SLD6-B	3	300-600	240				
100,000	100-250	QR2	HQR2H	3VA41	SEAB	1	15-125	120
				3VA41	SEAB	2, 3	15-125	240
				3VA51	SEAS	1	15-125	120
				3VA51	SEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
	15-125	3VA51	HEAS	QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2	1	15-30	120
				QAF2	QAF2, BAF2, QAF2N, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120
				QFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1	15-20	120
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				ED	ED4	1	15-125	120
				ED	ED4, ED6	2, 3	15-125	240
				15-125	ED	HED4	3VA41	SEAB, MEAB
	3VA41	SEAB, MEAB	2, 3				15-125	240
	3VA51	SEAS, MEAS	1				15-125	120
	3VA51	SEAS, MEAS	2, 3				15-125	240
	HED4, HED6	3VA41	SEAB, MEAB			1	15-125	120
		3VA41	SEAB, MEAB			2, 3	15-125	240
		3VA51	SEAS, MEAS			1	15-125	120
			3VA51	SEAS, MEAS	2, 3	15-125	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	40-150	3VA61	MDAE, HDA	3VA41	SEAB, MEAB	1	15-125	120
					SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
					SEAS	2, 3	15-125	240
					SEAS, MEAS	2, 3	15-125	240
					ED4	1	15-100	240
	ED	ED4, ED6	2, 3	15-125	240			
		50-150	3VA61	MDAE, HDA	DG	NDGB	2, 3	50-150
	50-150				DG	HDGB	3VA41	SEAB, MEAB
		SEAB, MEAB	2, 3	15-125				240
		3VA51	SEAS, MEAS	1			15-125	120
			SEAS, MEAS	2, 3			15-125	240
	40-250	3VA52	HFAS	QP	QP, BL, BQ	1	15-70	120/240
						2	15-125	120/240
						3	15-100	240
					QPH, BLH, BQH	1	15-70	120
						1	15-70	120/240
						2	15-125	120/240
					HQP, HBL, HBQ	3	15-100	240
						1	15-70	120
						1	15-70	120/240
					2	15-125	120/240	
						3	15-100	240
QT					QT	1,2	15-50	120/240
QPF				QPF, BLF, QE, BLE, QPHF, BLHF, QEH, BLEH	2	15-60	120/240	
QPF2				QPF2, BLF2, QPF2N, QPHF2, BLHF2, HQPF2, HBLF2	1	15-30	120	
QAF				QAF, BAF, QAFN, QAFH, BAFH	2	15-20	120/240	
QAF2				QAF2, BAF2, QAF2N, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120	
QFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1	15-20	120				
100-250	3VA52	HFAS	EQ	EQ868#	2	100-125	120/240	
150-250	3VA52	HFAS	EQ	EQ869#	2	150-225	120/240	
125-250	3VA52	HFAS	QPP	QPP, EQ948#, QPPH, QPPH, HQPPEQ978#	2	125-225	120/240	
100-250	3VA52	HFAS	QS	QS, QSH, QSHH, HQS	2	100-225	120/240	
			QR2	QR2, QRH2, HQR2	2	100-250	240	
40-250	3VA52	HFAS	3VA41	SEAB, MEAB	1	15-125	120	
			3VA41	SEAB, MEAB	2, 3	15-125	240	
			3VA51	SEAS, MEAS	1	15-125	120	
			3VA51	SEAS, MEAS	2, 3	15-125	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker					
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts	
100,000	40-250	3VA52	HFAS	ED	ED2	1	15-100	120	
					ED2	3, 2	15-100	240	
					ED4	1	15-125	120	
					ED4, ED6	2, 3	15-125	240	
	50-250	3VA52	HFAS	DG	NDGB	2, 3	50-150	240	
	40-250	3VA52	HFAS	3VA52	MFAS	2, 3	40-250	240	
	100-250	3VA52	HFAS	FG	NFGB	2, 3	100-250	240	
	70-250	3VA52	HFAS	FD	FD6-A, FXD6-A	2, 3	70-250	240	
	100-250	3VA62	MFAE, HFAE	QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2	1	15-30	120	
					QAF2	QAF2, BAF2, QAF2N, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120
					QFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1	15-20	120
					QS	QS, QSH, QSHH, HQS	2	100-225	120/240
					QR2	QR2, QRH2, HQR2	2, 3	100-250	240
					3VA41	SEAB, MEAB	1	15-125	120
					3VA41	SEAB, MEAB	2	15-125	240
					3VA41	SEAB, MEAB	2, 3	15-125	240
					3VA51	SEAS, MEAS	1	15-125	120
					3VA51	SEAS, MEAS	2	15-125	240
					3VA51	SEAS, MEAS	2, 3	15-125	240
					ED	ED4	1	15-125	120
					ED	ED4, ED6	2, 3	15-125	240
					DG	NDGB	2, 3	50-150	240
					3VA52	MFAS	2, 3	40-250	240
					FG	NFGB	2, 3	100-250	240
					FD	FD6-A, FXD6-A	2, 3	70-250	240
					100-250	FG	HFGB	3VA41	SEAB, MEAB
	3VA41	SEAB, MEAB	2, 3	15-125				240	
	3VA51	SEAS, MEAS	1	15-125				120	
	3VA51	SEAS, MEAS	2, 3	15-125				240	
	3VA52	MFAS	2, 3	40-250				240	
	70-250	FD	HFD6, HFXD6	3VA41	SEAB, MEAB	1	15-125	120	
				3VA41	SEAB, MEAB	2, 3	15-125	240	
3VA51				SEAS, MEAS	1	15-125	120		
3VA51				SEAS, MEAS	2, 3	15-125	240		
3VA52	MFAS		3VA52	MFAS	2, 3	40-250	240		
			3VA52	MFAS	2, 3	40-250	240		
			3VA52	MFAS	2, 3	40-250	240		
			3VA52	MFAS	2, 3	40-250	240		
200-400	3VA53	HJAS	QPF2	QPF2, BLF2, QPHF2, BLHF2, HQPF2, HBLF2	1	15-30	120		
			QAF2	QAF2, BAF2, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120		

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	200-400	3VA53	HJAS	QAF2	QAF2, BAF2, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120
				QFG2	QFGA2, BFGA2, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1	15-20	120
				QS	QS, QSH, QSHH, HQS	2	100-225	120/240
				QR2	QR2, QRH2, HQR2	2, 3	100-250	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				ED	ED4	1	15-125	120
				ED	ED4	2	15-125	240
				ED	ED4	1	15-100	120
				ED	ED4	2	15-100	240
				ED	ED4, ED6	3, 2	15-125	240
				ED	ED6	2	15-100	240
				ED	ED6	3	15-125	240
				DG	NDGB	2, 3	50-150	240
				3VA52	MFAS	2, 3	40-250	240
				FG	NFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A	2, 3	70-250	240
				3VA53	MJAS	2, 3	200-400	240
	JG	NJGA, NJJA	2, 3	250-400	240			
	JD	JXD2-A, JXD2-A, JD6-A, JXD6-A, SJD6-B	2, 3	200-400	240			
	250-400	3VA63	MJAE, HJAE	QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2, HQPF2, HBLF2	1	15-30	120
				QAF2	QAF2, BAF2, QAF2N, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120
				QFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1	15-20	120
				QS	QS, QSH, QSHH, HQS	2	100-225	120/240
				QR2	QR2, QRH2, HQR2	2, 3	100-250	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2	15-125	240
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2	15-125	240
3VA51				SEAS, MEAS	2, 3	15-125	240	
ED				ED4	1	15-125	120	
ED				ED4, ED6	2, 3	15-125	240	
DG				NDGB	2, 3	50-150	240	



# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	250-400	3VA63	MJAE, HJAE	3VA52	MFAS	2, 3	40-250	240
				FG	NFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A	2, 3	70-250	240
				3VA53	MJAS	2, 3	200-400	240
				JG	NJGA, NJJA	2, 3	250-400	240
				JD	JXD2-A, JD6-A, JXD6-A, SJD6-B	2, 3	200-400	240
				250-400	JG	HJGA	3VA41	SEAB, MEAB
	3VA41	SEAB, MEAB	2, 3				15-125	240
	3VA51	SEAS, MEAS	1				15-125	120
	3VA51	SEAS, MEAS	2, 3				15-125	240
	3VA52	MFAS	2, 3				40-250	240
	3VA53	MJAS	2, 3				200-400	240
	200-400	JD	HJD6-A	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
	200-400	JD	HJXD6-A	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
	200-400	JD	SHJD6-B	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
	200-400	JD	SHJD6-A	3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
	450-600	3VA54	HLAS	QPF2	QPF2, BLF2, QPHF2, BLHF2, HQPF2, HBLF2	1	15-30	120
				QAF2	QAF2, BAF2, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120
				QFG2	QFGA2, BFGA2, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1	15-20	120
				QS	QS, QSH, QSHH, HQS	2	100-225	120/240
QR2				QR2, QRH2, HQR2	2, 3	100-250	240	
3VA41				SEAB, MEAB	1	15-125	120	
3VA41				SEAB, MEAB	2, 3	15-125	240	
3VA51				SEAS, MEAS	1	15-125	120	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	450-600	3VA54	HLAS	3VA51	SEAS, MEAS	2, 3	15-125	240
				ED	ED4	1	15-125	120
				ED	ED4, ED6	2, 3	15-125	240
				DG	NDGB	2, 3	50-150	240
				3VA52	MFAS	2, 3	40-250	240
				FG	NFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A	2, 3	70-250	240
				3VA53	MJAS	2, 3	200-400	240
				JG	NJGA, NJJA	2, 3	250-400	240
				JD	JXD2-A, JD6-A, JXD6-A, SJD6-B	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				LG	NLGB	2, 3	400-600	240
				LD	LD6-A	2, 3	250-600	240
				LD	LXD6-A	2, 3	450-600	240
				LD	SLD6-B	3	300-600	240
				450-600	3VA54	CLAS	3VA41	SEAB, MEAB
	3VA41	SEAB, MEAB	2, 3				15-125	240
	3VA51	SEAS, MEAS	1				15-125	120
	3VA51	SEAS, MEAS	2, 3				15-125	240
	400-600	3VA64	MLAE, HLAE	QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2, HQPF2, HBLF2	1	15-30	120
				QAF2	QAF2, BAF2, QAF2N, QAFH2, BAFH2, HQAF2, HBAF2	1	15-20	120
				QFG2	QFGA2, BFGA2, QFGA2N, QFGAH2, BFGAH2, HQFGA2, HBFGA2	1	15-20	120
				QS	QS, QSH, QSHH, HQS	2	100-225	120/240
				QR2	QR2, QRH2, HQR2	2, 3	100-250	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2	15-125	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				ED	ED4	1	15-125	120
				ED	ED4, ED6	2, 3	15-125	240
				DG	NDGB	2, 3	50-150	240
				3VA52	MFAS	2, 3	40-250	240
				FG	NFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A	2, 3	70-250	240
				3VA53	MJAS	2, 3	200-400	240
				JG	NJGA, NJJA	2, 3	250-400	240

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	400-600	3VA64	MLAE, HLAE	JD	JXD2-A, JD6-A, JXD6-A, JD6-A, SJD6-B	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				LG	NLGB	2, 3	400-600	240
				LD	LD6-A	2, 3	250-600	240
				LD	LXD6-A	2, 3	450-600	240
				LD	SLD6-B	3	300-600	240
	400-600	LG	HLGB	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
	250-600	LD	HLD6-A	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
	450-600	LD	HLXD6-A	3VA54	MLAS	2, 3	450-600	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
	300-600	LD	SHLD6-B	3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
	450-600	LD	SHLD6-B	3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
	300-600	LD	SHLD6-A	3VA54	MLAS	2, 3	450-600	240
3VA52				MFAS	2, 3	40-250	240	
450-600	LD	SHLD6-A	3VA53	MJAS	2, 3	200-400	240	
			3VA54	MLAS	2, 3	450-600	240	
600-800	MG	HMG	3VA41	SEAB, MEAB	1	15-125	120	
			3VA41	SEAB, MEAB	2, 3	15-125	240	
			3VA51	SEAS, MEAS	1	15-125	120	
			3VA51	SEAS, MEAS	2, 3	15-125	240	
			3VA52	MFAS, MFAS	2, 3	40-250	240	
			3VA53	MJAS, MJAS	2, 3	200-400	240	
			3VA54	MLAS, MLAS	2, 3	450-600	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	500-800	MD	HMD6, HMXD6	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				3VA54	MLAS	2, 3	450-600	240
	600-800	MD	SHMD6-B	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
			SHMD6	3VA54	MLAS	2, 3	450-600	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				3VA54	MLAS	2, 3	450-600	240
				3VA54	MLAS	2, 3	450-600	240
	800-1200	NG	HNG	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				3VA54	MLAS	2, 3	450-600	240
	800-1200	ND	HND6, HNXD6	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				3VA54	MLAS	2, 3	450-600	240
	800-1200	ND	SHND6-B	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				3VA54	MLAS	2, 3	450-600	240
	800-1200	ND	SHND6	3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
	1200-1600	PG	HPG	3VA41	SEAB, MEAB	1	15-125	120
3VA41				SEAB, MEAB	2, 3	15-125	240	
3VA51				SEAS, MEAS	1	15-125	120	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	1200-1600	PG	HPG	3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
	1200-1600	PD	HPD6, HPXD6	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
				3VA41	SEAB, MEAB	1	15-125	120
	1400-1600	PD	SHPD6-B	3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
				3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
	1400-1600	PD	SHPD6	3VA52	MFAS	2, 3	40-250	240
				3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
	1600-2000	RD	HRD6, HRXD6	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
3VA51				SEAS, MEAS	2, 3	15-125	240	
3VA52				MFAS	2, 3	40-250	240	
3VA53				MJAS	2, 3	200-400	240	
15-125	ED	CED6	3VA41	SEAB, MEAB	1	15-125	120	
			3VA41	SEAB, MEAB	2, 3	15-125	240	
			3VA41	HEAB	1	15-125	120	
			3VA41	HEAB	2, 3	15-125	240	
40-150	3VA61	CDAE, LDAE	3VA61	MDAE, HDAE	3	40-150	240	
50-150	3VA61	CDAE, LDAE	DG	NDGB, HDGB	2, 3	50-150	240	
50-150	DG	LDGB	3VA61	MDAE, HDAE	3	40-150	240	
200,000	40-250	3VA52	CFAS	QP	QP, BL, BQ	1	15-70	120/240
						2	15-125	120/240
						3	15-100	240
					QPH, BLH, BQH	1	15-70	120/240
						2	15-125	120/240
						3	15-100	240
					HQP, HBL, HBQ	1	15-70	120/240
						2	15-125	120/240
	3	15-100	240					
			QT	1,2	15-50	120/240		

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	40-250	3VA52	CFAS	QPF	QPF, BLF, QE, BLE, QPHF, BLHF, QEH, BLEH	2	15-60	120/240
				QPF2	QPF2, BLF2, QPF2N, QPHF2, BLHF2, HQPF2, HBLF2	1	15-30	120
				QAF	QAF, BAF, QAFN, QAFH, BAFH	2	15-20	120/240
				QAF2	QAF2, BAF2, QAF2N, MP-AT2, QAFH2, BAFH2, MP-HAT2HQAF2, HBAF2	1	15-20	120
				QFG2	QFGA2, BFGA2, QFGA2N, MP-GAT2, QFGAH2, BFGAH2, MP-HGAT2HQF-GA2, HBFGA2	1	15-20	120
	125-250	3VA52	CFAS	QPP	QPP, EQ948#, QPPH, QPPH, HQPPEQ978#	2	125-225	120/240
	40-250	3VA52	CFAS	xGB	NGB, HGB, LGB	1	15-125	120
				xGB	NGB, HGB, LGB	2, 3	15-125	240
	100-250	3VA52	CFAS	QR2	QR2, QRH2, HQR2, HQR2H	2, 3	100-250	240
	40-250	3VA52	CFAS	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				ED	ED2	1	15-100	120
				ED	ED2	3, 2	15-100	240
				ED	ED4	1	15-125	120
				ED	ED4	2, 3	15-125	240
				3VA61	MDAE, HDAE	3	40-150	240
				DG	NDGB, HDGB	2, 3	50-150	240
	40-250	3VA52	CFAS	3VA52	MFAS, HFAS	2, 3	40-250	240
	100-250	3VA52	CFAS	3VA62	MFAE, HF AE	3	100-250	240
	100-250	3VA52	CFAS	FG	NFGB, HFGB	2, 3	100-250	240
	70-250	3VA52	CFAS	FD	HFD6, HF XD6	2, 3	70-250	240
	100-250	3VA62	CF AE, LFAE	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
3VA41				HEAB	2, 3	15-125	240	
3VA61				MDAE, HDAE	3	40-150	240	
DG				NDGB	2, 3	50-150	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	100-250	3VA62	CFAE, LFAE	3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE	3	100-250	240
				FG	NFGB, HFGB	2, 3	100-250	240
				FD	HFD6, HFXD6	2, 3	70-250	240
	100-250	FG	LFGB	3VA61	MDAE, HDAE	3	40-150	240
				3VA41	SEAB, MEAB	1	15-125	120
	70-250	FD	HHFD6	3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				3VA41	SEAB, MEAB	1	15-125	120
	70-250	FD	HHFXD6	3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				3VA41	SEAB, MEAB	1	15-125	120
	70-250	FD	CFD6-A	3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS	2, 3	40-250	240
	100-250	FD	CFD6-A	3VA62	MFAE, HFAE	3	100-250	240
	200-400	3VA53	CJAS	xGB	NGB, HGB, LGB	1	15-125	120
						2	15-125	240
						3	15-20	240
				QR2	QR2, QRH2, HQR2, HQR2H	2,3	100-250	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				ED	ED4	1	15-100	120
						2	15-100	240
						3	15-125	240
ED				ED6	2	15-100	240	
ED				ED6	3	15-125	240	
3VA61				MDAE, HDAE	3	40-150	240	
DG				NDGB, HDGB	2, 3	50-150	240	
3VA52				MFAS, HFAS	2, 3	40-250	240	
3VA62				MFAE, HFAE	3	100-250	240	
FG				NFGB, HFGB	2, 3	100-250	240	
FD				FD6-A, FXD6-A, HFD6, HFXD6	2,3, 2	70-250	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	250-400	3VA53	CJAS	3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE	3, 2	250-400	240
				JG	NJGA, NJJA, HJGA	2, 3	250-400	240
	250-400	3VA63	CJAE, LJAE	xGB	NGB, HGB, LGB	1	15-125	120
						2	15-125	240
						3	15-20	240
				QR2	QR2, QRH2, HQR2, HQR2H	2,3	100-250	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				ED	ED4	1	15-100	120
						2	15-100	240
				3	15-125	240		
				ED	ED6	2	15-100	240
				ED	ED6	3	15-125	240
				3VA61	MDAE, HDAE	3	40-150	240
				DG	NDGB, HDGB,	2, 3	50-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE	3	100-250	240
				FG	NFGB, HFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A, HFD6, HFXD6	2,3	70-250	240
						2		
				3VA53	MJAS, HJAS	2, 3	250-400	240
	3VA63	MJAE, HJAE	3, 2	250-400	240			
	JG	NJGA, NJJA	2, 3	250-400	240			
	250-400	JG	LJGA	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE	3	100-250	240
				3VA53	MJAS, HJAS,	2, 3	250-400	240
	3VA63	MJAE, HJAE	3	250-400	240			
	200-400	JD	HHJD6	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
	3VA63	MJAE, HJAE	3	250-400	240			
	200-400	JD	HHJXD6	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240



# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	200-400	JD	CJD6-A	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
	250-400	JD	CJD6-A	3VA53	MJAE, HJAE	3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
	450-600	3VA54	CLAS	xGB	NGB, HGB, LGB	1	15-125	120
						2	15-125	240
						3	15-20	240
				QR2	QR2, QRH2, HQR2, HQR2H	2,3	100-250	240
				3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
				3VA61	MDAE, HDAE	3	40-150	240
				DG	NDGB, HDGB	2, 3	50-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				FG	NFGB, HFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A, HFD6, HFXD6	2,3, 2	70-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3, 2	250-400	240
				JG	NJGA, NJJA, HJGA	2, 3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
	3VA64	MLAE, HLAE	3, 2	400-600	240			
	LG	NLGB, HLGB	2, 3	400-600	240			
	400-600	3VA64	CLAE, LLAE	xGB	NGB, HGB, LGB	1	15-125	120
						2	15-125	240
						3	15-20	240
				QR2	QR2, QRH2, HQR2, HQR2H	2,3	100-250	240
3VA41				SEAB, MEAB	1	15-125	120	
3VA41				SEAB, MEAB	2, 3	15-125	240	
3VA41				HEAB	1	15-125	120	
3VA41				HEAB	2, 3	15-125	240	
3VA61				MDAE, HDAE	3	40-150	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	400-600	3VA64	CLAE,LLAE	DG	NDGB, HDGB	2, 3	50-150	240
				3VA52	MFAS, HFAS,	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				FG	NFGB, HFGB	2, 3	100-250	240
				FD	FD6-A, FXD6-A, HFD6, HFXD6	2,3, 2	70-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3, 2	250-400	240
				JG	NJGA, NJJA, HJGA	2, 3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3, 2	400-600	240
				LG	NLGB, HLGB	2, 3	400-600	240
				400-600	LG	LLGB	3VA61	MDAE, HDAE
	3VA52	MFAS, HFAS	2, 3				40-250	240
	3VA62	MFAE, HFAE	3				100-250	240
	3VA53	MJAS, HJAS	2, 3				250-400	240
	3VA63	MJAE, HJAE	3				250-400	240
	3VA54	MLAS, HLAS	2, 3				450-600	240
	3VA64	MLAE, HLAE	3				400-600	240
	3VA61	MDAE, HDAE	3				40-150	240
	3VA52	MFAS, HFAS	2, 3				40-250	240
	3VA62	MFAE, HFAE	3				100-250	240
	3VA53	MJAS, HJAS	2, 3				250-400	240
	3VA63	MJAE, HJAE	3				250-400	240
	250-600	LD	HHLD6	3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
				3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
3VA61				MDAE, HDAE	3	40-150	240	
3VA52				MFAS, HFAS	2, 3	40-250	240	
450-600				LD	CLD6-A	3VA41	SEAB, MEAB	1
	3VA41	SEAB, MEAB	2, 3			15-125	240	
	3VA41	HEAB	1			15-125	120	
	3VA41	HEAB	2, 3			15-125	240	
	3VA61	MDAE, HDAE	3			40-150	240	
	3VA52	MFAS, HFAS	2, 3			40-250	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	450-600	LD	CLD6-A	3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
	600-800	MG	LMG	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
	600-800	MD	CMD6	3VA64	MLAE, HLAE	3	400-600	240
				3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
	600-800	MD	SCMD6-B	3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
				3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
				3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
	800-1200	NG	LNG	3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
				3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 240V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	900-1200	ND	CND6	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
	800-1200	ND	SCND6-B	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
	800-1200	ND	SCND6-A	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
	1200-1600	PG	LPG	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
				3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
	1200-1600	PD	CPD6	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
3VA62				MFAE, HFAE	3	100-250	240	
3VA53				MJAS, HJAS	2, 3	250-400	240	
3VA63				MJAE, HJAE	3	250-400	240	
3VA54				MLAS, HLAS,	2, 3	450-600	240	
3VA64				MLAE, HLAE	3	400-600	240	
			3VA53	MJAS, HJAS	2, 3	250-400	240	

# Fuses

## Series Connected Short Circuit Rating 240V Fuse Series Ratings

Series Rating	Main Breaker			Branch Breaker				
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	200-600	FUSE	Class R	3VA53	MJAS	2, 3	200-400	240
	450-600	FUSE	Class R	3VA54	MLAS	2, 3	450-600	240
	200-600	FUSE	Class J	3VA53	MJAS	2, 3	200-400	240
	450-600	FUSE	Class J	3VA54	MLAS	2, 3	450-600	240
	15-600	FUSE	Class T(300V)	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA51	SEAS, MEAS	1	15-125	120
				3VA51	SEAS, MEAS	2, 3	15-125	240
	200-1200	FUSE	Class T	3VA53	MJAS	2, 3	200-400	240
	450-1200	FUSE	Class T	3VA54	MLAS	2, 3	450-600	240
	601-6000	FUSE	Class L	3VA53	MJAS	2, 3	200-400	240
				3VA54	MLAS	2, 3	450-600	240
200,000	30-600	FUSE	Class R	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
	40-600	FUSE	Class R	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS	2, 3	40-250	240
	100-600	FUSE	Class R	3VA62	MFAE, HFAE	3	100-250	240
	250-600	FUSE	Class R	3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
	450-600	FUSE	Class R	3VA54	MLAS, HLAS	2, 3	450-600	240
	400-600	FUSE	Class R	3VA64	MLAE, HLAE	3	400-600	240
	15-600	FUSE	Class J	3VA41	SEAB, MEAB	1	15-125	120
				3VA41	SEAB, MEAB	2, 3	15-125	240
				3VA41	HEAB	1	15-125	120
				3VA41	HEAB	2, 3	15-125	240
	40-600	FUSE	Class J	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS, HFAS	2, 3	40-250	240
	100-600	FUSE	Class J	3VA62	MFAE, HFAE	3	100-250	240
	250-600	FUSE	Class J	3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
450-600	FUSE	Class J	3VA54	MLAS, HLAS	2, 3	450-600	240	
400-600	FUSE	Class J	3VA64	MLAE, HLAE	3	400-600	240	
15-600	FUSE	Class T	3VA41	SEAB, MEAB	1	15-125	120	
			3VA41	SEAB, MEAB	2, 3	15-125	240	
			3VA41	HEAB	1	15-125	120	

# Fuses

## Series Connected Short Circuit Rating 240V Fuse Series Ratings (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
200,000	15-600	FUSE	Class T	3VA41	HEAB	2, 3	15-125	240
	40-1200	FUSE	Class T	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS	2, 3	40-250	240
	100-1200	FUSE	Class T	3VA62	MFAE, HFAE	3	100-250	240
	250-1200	FUSE	Class T	3VA53	MJAS, HJAS	2, 3	250-400	240
				3VA63	MJAE, HJAE	3	250-400	240
	450-1200	FUSE	Class T	3VA54	MLAS, HLAS	2, 3	450-600	240
				3VA64	MLAE, HLAE	3	400-600	240
	601-6000	FUSE	Class L	3VA61	MDAE, HDAE	3	40-150	240
				3VA52	MFAS	2, 3	40-250	240
				3VA62	MFAE, HFAE	3	100-250	240
				3VA53	MJAS, HJAS	2, 3	250-400	240
3VA63				MJAE, HJAE	3	250-400	240	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
35,000	15-125	3VA51	MEAS	xGB	NGB	1	15-125	277			
				xGB	NGB	2, 3	15-125	480Y/277			
				xGB2	NGB2	1	15-125	277			
				xGB2	NGB2	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				70-250	3VA52	MFAS	xQD	BQD, CQD	1	15-100	277
	xQD	BQD, CQD	2, 3				15-100	480Y/277			
	xGB	NGB	1				15-125	277			
	xGB	NGB	2, 3				15-125	480Y/277			
	xGB2	NGB2	1				15-125	277			
	xGB2	NGB2	2, 3				15-125	480			
	3VA41	SEAB	1				15-125	277			
	3VA41	SEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	ED	ED4 (1P)	1				15-100	277			
	ED	ED4 (2P/3P)	2, 3	15-125	480						
	100-250	3VA62	MFAE	xGB	NGB	1	15-125	277			
				xGB	NGB	2, 3	15-125	480Y/277			
				xGB2	NGB2	1	15-125	277			
				xGB2	NGB2	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				70-250	FD	FD6-A, FXD6-A	3VA41	SEAB	2, 3	15-125	480
							3VA51	SEAS	1	15-125	277
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	SEAS	2, 3				15-125	480			
	200-400	3VA53	MJAS	xGB	NGB	1	15-125	277			
				xGB	NGB	2, 3	15-125	480Y/277			
				xGB2	NGB2	1	15-125	277			
				xGB2	NGB2	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
	250-400	3VA63	MJAE	xGB	NGB	1	15-125	277			
xGB				NGB	2, 3	15-125	480Y/277				
xGB2				NGB2	1	15-125	277				
xGB2				NGB2	2, 3	15-125	480				
xGB2				NGB2	2, 3	15-125	480				

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
35,000	250-400	3VA63	MJAE	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
	200-400	JD	JD6-A, JXD6-A	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
	450-600	3VA54	MLAS	xGB	NGB	1	15-125	277
				xGB	NGB	2, 3	15-125	480Y/277
				xGB2	NGB2	1	15-125	277
				xGB2	NGB2	2, 3	15-125	480
				3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
50,000	70-250	FD	HFD6, HFXD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
	200-400	JD	HJD6-A	3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
	250-400	JD	HJD6-A	3VA63	MJAE	3	250-400	480
	200-400	JD	HJXD6-A	3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
	250-400	JD	HJXD6-A	3VA63	MJAE	3	250-400	480
	250-600	LD	HLD6-A	3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
	400-600	LD	HLD6-A	3VA64	MLAE	3	400-600	480
				3VA52	MFAS	2, 3	40-250	480
	450-600	LD	HLXD6-A	3VA62	MFAE	3	100-250	480
3VA53				MJAS	2, 3	200-400	480	



# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
50,000	450-600	LD	HLXD6-A	3VA63	MJAE	3	250-400	480			
				3VA54	MLAS	2, 3	450-600	480			
				3VA64	MLAE	3	400-600	480			
	500-800	MD	MD6, MXD6	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3	100-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3	250-400	480			
				3VA54	MLAS	2, 3	450-600	480			
				3VA64	MLAE	3	400-600	480			
				600-800	MD	SMD6-B	3VA41	SEAB	1	15-125	277
							3VA41	SEAB	2, 3	15-125	480
	3VA41	MEAB	1				15-125	277			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	3VA61	MDAE	3				40-150	480			
	3VA52	MFAS	2, 3				40-250	480			
	3VA62	MFAE	3				100-250	480			
	3VA53	MJAS	2, 3				200-400	480			
	3VA63	MJAE	3				250-400	480			
	3VA54	MLAS	2, 3				450-600	480			
	3VA64	MLAE	3				400-600	480			
	600-800	MD	SMD6				3VA61	MDAE	3	40-150	480
							3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3	250-400	480			
				3VA54	MLAS	2, 3	450-600	480			
				3VA64	MLAE	3	400-600	480			
	800-1200	ND	ND6, NXD6	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
50,000	800-1200	ND	ND6,NXD6	3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS,	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
				3VA64	MLAE	3	400-600	480
				3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
	3VA41	MEAB	1	15-125	277			
	3VA41	MEAB	2, 3	15-125	480			
	3VA51	SEAS	1	15-125	277			
	3VA51	SEAS	2, 3	15-125	480			
	3VA51	MEAS	1	15-125	277			
	3VA51	MEAS	2, 3	15-125	480			
	3VA61	MDAE	3	40-150	480			
	3VA52	MFAS	2, 3	40-250	480			
	3VA62	MFAE	3	100-250	480			
	3VA53	MJAS	2, 3	200-400	480			
	3VA63	MJAE	3	250-400	480			
	3VA54	MLAS	2, 3	450-600	480			
	3VA64	MLAE	3	400-600	480			
	3VA61	MDAE	3	40-150	480			
	3VA52	MFAS	2, 3	40-250	480			
	3VA62	MFAE	3	100-250	480			
	3VA53	MJAS	2, 3	200-400	480			
	3VA63	MJAE	3	250-400	480			
	3VA54	MLAS	2, 3	450-600	480			
	3VA64	MLAE	3	400-600	480			
	3VA41	SEAB	1	15-125	277			
	3VA41	SEAB	2, 3	15-125	480			
	3VA41	MEAB	1	15-125	277			
	3VA41	MEAB	2, 3	15-125	480			
	3VA51	SEAS	1	15-125	277			
	3VA51	SEAS	2, 3	15-125	480			
	3VA51	MEAS	1	15-125	277			
	3VA51	MEAS	2, 3	15-125	480			
	3VA61	MDAE	3	40-150	480			
	3VA52	MFAS	2, 3	40-250	480			
	3VA62	MFAE	3	100-250	480			
	3VA53	MJAS	2, 3	200-400	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
50,000	1200-1600	PD	PD6, PXD6	3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
				3VA64	MLAE	3	400-600	480
	1400-1600	PD	SPD6-B	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
				3VA64	MLAE	3	400-600	480
	1400-1600	PD	SPD6	3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
				3VA64	MLAE	3	400-600	480
	1600-2000	RD	RD6,RXD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
3VA63				MJAE	3	250-400	480	
3VA54				MLAS	2, 3	450-600	480	
3VA64				MLAE	3	400-600	480	
65,000	15-125	3VA51	HEAS	xGB	NGB	1	15-125	277
				xGB	NGB	2, 3	15-125	480Y/277
				xGB	HGB	1	15-125	277

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 48V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	15-125	3VA51	HEAS	xGB	HGB	2, 3	15-125	480Y/277			
				xGB2	NGB2	1	15-125	277			
				xGB2	NGB2	2, 3	15-125	480			
				xGB2	HGB2	1	15-125	277			
				xGB2	HGB2	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				40-150	3VA61	HDAE	xGB	NGB	1	15-125	277
	xGB	NGB	2, 3				15-125	480Y/277			
	xGB	HGB	1				15-125	277			
	xGB	HGB	2, 3				15-125	480Y/277			
	xGB2	NGB2	1				15-125	277			
	xGB2	NGB2	2, 3				15-125	480			
	xGB2	HGB2	1				15-125	277			
	xGB2	HGB2	2, 3				15-125	480			
	3VA41	SEAB	1				15-125	277			
	3VA41	SEAB	2, 3				15-125	480			
	3VA41	MEAB	1				15-125	277			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	3VA61	MDAE	3				40-150	480			
	50-150	3VA61	HDAE				DG	NDGB	3	50-150	480
	50-150	DG	HDGB				3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	70-250	3VA52	HFAS	xQD	BQD, CQD	1	15-100	277			
				xQD	BQD, CQD	2, 3	15-100	480Y/277			
				xGB	NGB	1	15-125	277			
				xGB	NGB	2, 3	15-125	480Y/277			
				xGB	HGB	1	15-125	277			
				xGB	HGB	2, 3	15-125	480Y/277			
				xGB2	NGB2	1	15-125	277			
				xGB2	NGB2	2, 3	15-125	480			
				xGB2	HGB2	1	15-125	277			
				xGB2	HGB2	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				ED	ED4 (1P)	1	15-100	277			
				ED	ED4 (2P/3P)	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				DG	NDGB	2, 3	50-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				100-250	3VA52	HFAS	3VA62	MFAE	3, 2	100-250	480
							FG	NFGB	2, 3	100-250	480
				70-250	3VA52	HFAS	FD	FD6-A, FXD6-A, HFD6, HFXD6	2, 3	70-250	480
				100-250	3VA62	HFAE	xGB	NGB	1	15-125	277
							xGB	NGB	2, 3	15-125	480Y/277
	xGB	HGB	1				15-125	277			
	xGB	HGB	2, 3				15-125	480Y/277			
	xGB2	NGB2	1				15-125	277			
	xGB2	NGB2	2, 3				15-125	480			
	xGB2	HGB2	1				15-125	277			
	xGB2	HGB2	2, 3				15-125	480			
	3VA41	SEAB	1				15-125	277			
	3VA41	SEAB	2, 3				15-125	480			
	3VA41	MEAB	1				15-125	277			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
3VA51	MEAS	1	15-125				277				
3VA51	MEAS	2, 3	15-125				480				

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	100-250	3VA62	HFAE	3VA61	MDAE	3	40-150	480			
				DG	NDGB	2, 3	50-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3, 2	100-250	480			
				FG	NFGB	2, 3	100-250	480			
	100-250	FG	HFGB	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3	100-250	480			
				70-250	FD	HFD6, HFXD6	3VA41	SEAB	1	15-125	277
							3VA41	SEAB	2, 3	15-125	480
	3VA41	MEAB	1				15-125	277			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	3VA61	MDAE	3				40-150	480			
	3VA52	MFAS	2, 3				40-250	480			
	100-250	FD	HFD6, HFXD6	3VA62	MFAE	3	100-250	480			
	200-400	3VA53	HJAS	xGB	NGB	1	15-125	277			
				xGB	NGB	2, 3	15-125	480Y/277			
				xGB	HGB	1	15-125	277			
				xGB	HGB	2, 3	15-125	480Y/277			
				xGB2	NGB2	1	15-125	277			
				xGB2	NGB2	2, 3	15-125	480			
				xGB2	HGB2	1	15-125	277			
				xGB2	HGB2	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				DG	NDGB	2, 3	50-150	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	200-400	3VA53	HJAS	3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3, 2	100-250	480			
				FG	NFGB	2, 3	100-250	480			
				FD	FD6-A, FXD6-A	2, 3	70-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3, 2	250-400	480			
				JG	NJGA	2, 3	250-400	480			
				250-400	3VA63	HJAE	xGB	NGB	1	15-125	277
	xGB	NGB	2, 3				15-125	480Y/277			
	xGB	HGB	1				15-125	277			
	xGB	HGB	2, 3				15-125	480Y/277			
	xGB2	NGB2	1				15-125	277			
	xGB2	NGB2	2, 3				15-125	480			
	xGB2	HGB2	1				15-125	277			
	xGB2	HGB2	2, 3				15-125	480			
	3VA41	SEAB	1				15-125	277			
	3VA41	SEAB	2, 3				15-125	480			
	3VA41	MEAB	1				15-125	277			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	3VA61	MDAE	3				40-150	480			
	DG	NDGB	2, 3				50-150	480			
	3VA52	MFAS	2, 3				40-250	480			
	3VA62	MFAE	3, 2				100-250	480			
	FG	NFGB	2, 3				100-250	480			
	FD	FD6-A, FXD6-A	2, 3				70-250	480			
	3VA53	MJAS	2, 3				200-400	480			
	3VA63	MJAE	3, 2				250-400	480			
	JG	NJGA	2, 3				250-400	480			
	250-400	JG	HJGA				3VA41	SEAB	1	15-125	277
							3VA41	SEAB	2, 3	15-125	480
							3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3	100-250	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
65,000	250-400	JG	HJGA	3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
	200-400	JD	HJD6-A	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
	250-400	JD	HJD6-A	3VA63	MJAE	3	250-400	480
	200-400	JD	HJXD6-A	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
	250-400	JD	HJXD6-A	3VA63	MJAE	3	250-400	480
	200-400	JD	HHJD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
	200-400	JD	HHJXD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
3VA51				MEAS	1	15-125	277	
3VA51				MEAS	2, 3	15-125	480	
450-600	3VA54	HLAS	xGB	NGB	1	15-125	277	
			xGB	NGB	2, 3	15-125	480Y/277	



# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	450-600	3VA54	HLAS	xGB	HGB	1	15-125	277			
				xGB	HGB	2, 3	15-125	480Y/277			
				xGB2	NGB2	1	15-125	277			
				xGB2	NGB2	2, 3	15-125	480			
				xGB2	HGB2	1	15-125	277			
				xGB2	HGB2	2, 3	15-125	480			
				3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				DG	NDGB	2, 3	50-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3, 2	100-250	480			
				FG	NFGB	2, 3	100-250	480			
				FD	FD6-A, FXD6-A	2, 3	70-250	480			
				3VA53	MJAS	2, 3	250-400	480			
				3VA63	MJAE	3, 2	250-400	480			
				JG	NJGA	2, 3	250-400	480			
				3VA54	MLAS	2, 3	250-400	480			
				3VA64	MLAE	3, 2	400-600	480			
				LG	NLGB	2, 3	400-600	480			
				400-600	3VA64	HLAE	xGB	NGB	1	15-125	277
							xGB	NGB	2, 3	15-125	480Y/277
	xGB	HGB	1				15-125	277			
	xGB	HGB	2, 3				15-125	480Y/277			
	xGB2	NGB2	1				15-125	277			
	xGB2	NGB2	2, 3				15-125	480			
xGB2	HGB2	1	15-125				277				
xGB2	HGB2	2, 3	15-125				480				
3VA41	SEAB	1	15-125				277				
3VA41	SEAB	2, 3	15-125				480				
3VA41	MEAB	1	15-125				277				
3VA41	MEAB	2, 3	15-125				480				
3VA51	SEAS	1	15-125				277				
3VA51	SEAS	2, 3	15-125				480				
3VA51	MEAS	1	15-125				277				
3VA51	MEAS	2, 3	15-125				480				
3VA61	MDAE	3	40-150				480				
DG	NDGB	2, 3	50-150				480				

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	400-600	3VA64	HLAE	3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3, 2	100-250	480			
				FG	NFGB	2, 3	100-250	480			
				FD	FD6-A, FXD6-A	2, 3	70-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3, 2	250-400	480			
				JG	NJGA	2, 3	250-400	480			
				3VA54	MLAS	2, 3	450-600	480			
				3VA64	MLAE	3, 2	400-600	480			
				LG	NLGB	2, 3	400-600	480			
				400-600	LG	HLGB	3VA41	SEAB	1	15-125	277
							3VA41	SEAB	2, 3	15-125	480
							3VA41	MEAB	1	15-125	277
							3VA41	MEAB	2, 3	15-125	480
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	3VA61	MDAE	3				40-150	480			
	3VA52	MFAS	2, 3				40-250	480			
	3VA62	MFAE	3				100-250	480			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	3VA61	MDAE	3				40-150	480			
	3VA52	MFAS	2, 3				40-250	480			
	3VA62	MFAE	3				100-250	480			
	3VA53	MJAS	2, 3				200-400	480			
	3VA63	MJAE	3				250-400	480			
	450-600	LG	HLGB				3VA54	MLAS	2, 3	450-600	480
	400-600	LG	HLGB	3VA64	MLAE	3	400-600	480			
	250-600	LD	HLD6-A	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	250-600	LD	HLD6-A	3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3	100-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3	250-400	480			
	450-600	LD	HLD6-A	3VA54	MLAS	2, 3	450-600	480			
	400-600	LD	HLD6-A	3VA64	MLAE	3	400-600	480			
	450-600	LD	HLXD6-A	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3	100-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3	250-400	480			
				3VA54	MLAS	2, 3	450-600	480			
				3VA64	MLAE	3	400-600	480			
				250-600	LD	HHLD6	3VA41	SEAB	1	15-125	277
	3VA41	SEAB	2, 3				15-125	480			
	3VA41	MEAB	1				15-125	277			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	450-600	LD	HHLXD6				3VA41	SEAB	1	15-125	277
							3VA41	SEAB	2, 3	15-125	480
							3VA41	MEAB	1	15-125	277
							3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
	600-800	MG	HMG	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
65,000	600-800	MG	HMG	3VA51	MEAS	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
				3VA64	MLAE	3	400-600	480
				500-800	MD	HMD6, HMXD6	3VA41	SEAB
	3VA41	SEAB	2, 3				15-125	480
	3VA41	MEAB	1				15-125	277
	3VA41	MEAB	2, 3				15-125	480
	3VA51	SEAS	1				15-125	277
	3VA51	SEAS	2, 3				15-125	480
	3VA51	MEAS	1				15-125	277
	3VA51	MEAS	2, 3				15-125	480
	3VA61	MDAE	3				40-150	480
	3VA52	MFAS	2, 3				40-250	480
	3VA62	MFAE	3				100-250	480
	3VA53	MJAS	2, 3				200-400	480
	3VA63	MJAE	3				250-400	480
	3VA54	MLAS	2, 3				450-600	480
	3VA64	MLAE	3				400-600	480
	800-1200	NG	HNG	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
				3VA64	MLAE	3	400-600	480
	800-1200	ND	HND6, HNXD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
65,000	800-1200	ND	HND6, HNXD6	3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3	100-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3	250-400	480			
				3VA54	MLAS	2, 3	450-600	480			
				3VA64	MLAE	3	400-600	480			
				1200-1600	PG	HPG	3VA41	SEAB	1	15-125	277
							3VA41	SEAB	2, 3	15-125	480
	3VA41	MEAB	1				15-125	277			
	3VA41	MEAB	2, 3				15-125	480			
	3VA51	SEAS	1				15-125	277			
	3VA51	SEAS	2, 3				15-125	480			
	3VA51	MEAS	1				15-125	277			
	3VA51	MEAS	2, 3				15-125	480			
	3VA61	MDAE	3				40-150	480			
	3VA52	MFAS	2, 3				40-250	480			
	3VA62	MFAE	3				100-250	480			
	3VA53	MJAS	2, 3				200-400	480			
	3VA63	MJAE	3				250-400	480			
	3VA54	MLAS	2, 3				450-600	480			
	3VA64	MLAE	3	400-600	480						
	1200-1600	PD	HPD6, HPXD6	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA51	SEAS	1	15-125	277			
				3VA51	SEAS	2, 3	15-125	480			
				3VA51	MEAS	1	15-125	277			
				3VA51	MEAS	2, 3	15-125	480			
				3VA61	MDAE	3	40-150	480			
				3VA52	MFAS	2, 3	40-250	480			
				3VA62	MFAE	3	100-250	480			
				3VA53	MJAS	2, 3	200-400	480			
				3VA63	MJAE	3	250-400	480			
				3VA54	MLAS	2, 3	450-600	480			
	3VA64	MLAE	3	400-600	480						

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
65,000	1600-2000	RD	HRD6, HRXD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA51	SEAS	1	15-125	277
				3VA51	SEAS	2, 3	15-125	480
				3VA51	MEAS	1	15-125	277
				3VA51	MEAS	2, 3	15-125	480
				3VA61	MDAE	3	40-150	480
				3VA52	MFAS	2, 3	40-250	480
				3VA62	MFAE	3	100-250	480
				3VA53	MJAS	2, 3	200-400	480
				3VA63	MJAE	3	250-400	480
				3VA54	MLAS	2, 3	450-600	480
				3VA64	MLAE	3	400-600	480
				100,000	40-150	3VA61	CDAE	3VA61
70-250	3VA52	CFAS	xQD		BQD, CQD	1	15-100	277
			xQD		BQD, CQD	2, 3	15-100	480Y/277
			xGB		NGB	1	15-125	277
			xGB		NGB	2, 3	15-125	480Y/277
			xGB		HGB	1	15-125	277
			xGB		HGB	2, 3	15-125	480Y/277
			xGB		LGB	1	15-125	277
			xGB		LGB	2, 3	15-125	480Y/277
			3VA41		SEAB	1	15-125	277
			3VA41		SEAB	2, 3	15-125	480
			3VA41		MEAB	1	15-125	277
			3VA41		MEAB	2, 3	15-125	480
			3VA41		HEAB	1	15-125	277
			3VA41		HEAB	2, 3	15-125	480
3VA61	MDAE, HDAE	3	40-150		480			
DG	NDGB, HDGB	2, 3	50-150		480			
3VA52	MFAS, HFAS	2, 3	40-250		480			
100-250	3VA52	CFAS	3VA62		MFAE, HFAE	3	100-250	480
70-250	3VA52	CFAS	FG		NFGB, HFGB	2, 3	100-250	480
			FD		HFD6, HFXD6	2, 3	70-250	480
100-250	3VA62	CFAE	3VA61		MDAE, HDAE	3	40-150	480
			DG		NDGB, HDGB	2, 3	50-150	480
			3VA52	MFAS, HFAS	2, 3	40-250	480	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	100-250	3VA62	CFAE	3VA62	MFAE, HFAE	3	100-250	480
				FG	NFGB, HFGB	2, 3	100-250	480
				FD	HFD6, HFXD6	2, 3	70-250	480
	100-250	FG	LFGB	3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
	70-250	FD	HHFD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA41	HEAB	1	15-125	277
				3VA41	HEAB	2, 3	15-125	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
	100-250	FD	HHFD6	3VA62	MFAE, HFAE	3	100-250	480
	70-250	FD	HHFXD6	3VA41	SEAB	1	15-125	277
				3VA41	SEAB	2, 3	15-125	480
				3VA41	MEAB	1	15-125	277
				3VA41	MEAB	2, 3	15-125	480
				3VA41	HEAB	1	15-125	277
				3VA41	HEAB	2, 3	15-125	480
				3VA52	MFAS	2, 3	40-250	480
	100-250	FD	HHFXD6	3VA62	MFAE	3	100-250	480
	200-400	3VA53	CJAS	3VA61	MDAE, HDAE	3	40-150	480
				DG	NDGB, HDGB	2, 3	50-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				FG	NFGB	2, 3	100-250	480
				FD	FD6-A, FXD6-A, HFD6, HFXD6	2, 3	70-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
	250-400	3VA53	CJAS	3VA63	MJAE, HJAE	3	250-400	480
				JG	NJGA, HJGA	2, 3	250-400	480
	250-400	3VA63	CJAE	3VA61	MDAE, HDAE	3	40-150	480
				DG	NDGB, HDGB	2, 3	50-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				FG	NFGB, HFGB	2, 3	100-250	480
				FD	HFD6, HFXD6	2, 3	70-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				JG	NJGA, HJGA	2, 3	250-400	480

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	250-400	JG	LJGA	3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
	200-400	JD	HHJD6	3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
	250-400	JD	HHJD6	3VA63	MJAE, HJAE	3	250-400	480
	200-400	JD	HHJXD6	3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
	250-400	JD	HHJXD6	3VA63	MJAE, HJAE	3	250-400	480
	450-600	3VA54	CLAS	3VA61	MDAE, HDAE	3	40-150	480
				DG	NDGB, HDGB	2, 3	50-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				FG	NFGB, HFGB	2, 3	100-250	480
				FD	FD6-A, FXD6-A, HFD6, HFXD6	2, 3	70-250	480
				3VA53	MJAS, HJAS	2, 3	250-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				JG	NJGA, HJGA	2, 3	250-400	480
				3VA54	MLAS, HLAS	2, 3	250-400	480
				3VA64	MLAE, HLAE	3	400-600	480
				LG	NLGB, HLGB	2, 3	400-600	480
				400-600	3VA64	CLAE	3VA61	MDAE, HDAE
	DG	NDGB, HDGB	2, 3				50-150	480
	3VA52	MFAS, HFAS	2, 3				40-250	480
	3VA62	MFAE, HFAE	3				100-250	480
	FG	NFGB, HFGB	2, 3				100-250	480
	FD	HFD6, HFXD6	2, 3				70-250	480
	3VA53	MJAS, HJAS	2, 3				200-400	480
	3VA63	MJAE, HJAE	3				250-400	480
	JG	NJGA, HJGA	2, 3	250-400	480			
	450-600	3VA64	CLAE	3VA54	MLAS, HLAS	2, 3	450-600	480
	400-600	3VA64	CLAE	3VA64	MLAE, HLAE	3	400-600	480
				LG	NLGB, HLGB	2, 3	400-600	480



# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker							
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts			
100,000	400-600	LG	LLGB	3VA61	MDAE, HDAE	3	40-150	480			
				3VA52	MFAS, HFAS	2, 3	40-250	480			
				3VA62	MFAE, HFAE	3	100-250	480			
				3VA53	MJAS, HJAS	2, 3	200-400	480			
				3VA63	MJAE, HJAE	3	250-400	480			
	450-600	LG	LLGB	3VA54	MLAS, HLAS	2, 3	450-600	480			
	400-600	LG	LLGB	3VA64	MLAE, HLAE	3	400-600	480			
	250-600	LD	HHLD6	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA41	HEAB	1	15-125	277			
				3VA41	HEAB	2, 3	15-125	480			
				3VA61	MDAE, HDAE	3	40-150	480			
				3VA52	MFAS, HFAS	2, 3	40-250	480			
				3VA62	MFAE, HFAE	3	100-250	480			
				3VA53	MJAS, HJAS	2, 3	200-400	480			
	3VA63	MJAE, HJAE	3	250-400	480						
	450-600	LD	HHLD6	3VA54	MLAS, HLAS	2, 3	450-600	480			
	400-600	LD	HHLD6	3VA64	MLAE, HLAE	3	400-600	480			
	450-600	LD	HHLXD6	3VA41	SEAB	1	15-125	277			
				3VA41	SEAB	2, 3	15-125	480			
				3VA41	MEAB	1	15-125	277			
				3VA41	MEAB	2, 3	15-125	480			
				3VA41	HEAB	1	15-125	277			
				3VA41	HEAB	2, 3	15-125	480			
				3VA61	MDAE, HDAE	3	40-150	480			
				3VA52	MFAS, HFAS	2, 3	40-250	480			
				3VA62	MFAE, HFAE	3	100-250	480			
				3VA53	MJAS, HJAS	2, 3	200-400	480			
				3VA63	MJAE, HJAE	3	250-400	480			
				3VA54	MLAS, HLAS	2, 3	450-600	480			
				3VA64	MLAE, HLAE	3	400-600	480			
				600-800	MG	LMG	3VA61	MDAE, HDAE	3	40-150	480
							3VA52	MFAS, HFAS	2, 3	40-250	480
	3VA62	MFAE, HFAE	3				100-250	480			
	3VA53	MJAS, HJAS	2, 3				200-400	480			
	3VA63	MJAE, HJAE	3				250-400	480			
	3VA54	MLAS, HLAS	2, 3				450-600	480			
	3VA64	MLAE, HLAE	3				400-600	480			

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	600-800	MD	CMD6	3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
	600-800	MD	SCMD6-B	3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
	600-800	MD	SCMD6-A	3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
				3VA61	MDAE, HDAE	3	40-150	480
	800-1200	NG	LNG	3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
				3VA61	MDAE, HDAE	3	40-150	480
	900-1200	ND	CND6	3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
				3VA61	MDAE, HDAE	3	40-150	480
	800-1200	ND	SCND6-B	3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
				3VA61	MDAE, HDAE	3	40-150	480
800-1200	ND	SCND6-A	3VA52	MFAS, HFAS	2, 3	40-250	480	
			3VA62	MFAE, HFAE	3	100-250	480	
			3VA53	MJAS, HJAS	2, 3	200-400	480	

# Molded Case Circuit Breakers

## Series Connected Short Circuit Ratings

### 480V Breaker (Continued)

Series Rating	Main Breaker			Branch Breaker				
kAIR	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	800-1200	ND	SCND6-A	3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
	1200-1600	PG	LPG	3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
				3VA61	MDAE, HDAE	3	40-150	480
				3VA52	MFAS, HFAS	2, 3	40-250	480
				3VA62	MFAE, HFAE	3	100-250	480
				3VA53	MJAS, HJAS	2, 3	200-400	480
				3VA63	MJAE, HJAE	3	250-400	480
				3VA54	MLAS, HLAS	2, 3	450-600	480
				3VA64	MLAE, HLAE	3	400-600	480
				150,000	40-150	3VA61	LDAE	3VA61
100-250	3VA62	LFAE	3VA61		MDAE, HDAE, CDAE	3	40-150	480
			3VA62		MFAE, HFAE, CFAE	3	100-250	480
250-400	3VA63	LJAE	3VA61		MDAE, HDAE, CDAE	3	40-150	480
			3VA62		MFAE, HFAE, CFAE	3	100-250	480
			FD		HFD6, HFXD6	2, 3	70-250	480
200-400	JD	CJD6-A	3VA63		MJAE, HJAE, CJAE	3	250-400	480
			3VA61		MDAE, HDAE, CDAE	3	40-150	480
250-400	JD	CJD6-A	3VA62		MFAE, HFAE, CFAE	3	100-250	480
			3VA63		MJAE, HJAE, CJAE	3	250-400	480
400-600	3VA64	LLAE	3VA61		MDAE, HDAE, CDAE	3	40-150	480
			3VA62		MFAE, HFAE, CFAE	3	100-250	480
			FD		HFD6, HFXD6	2, 3	70-250	480
			3VA63		MJAE, HJAE, CJAE	3	250-400	480
			3VA64		MLAE, HLAE, CLAE	3	400-600	480
450-600	LD	CLD6-A	3VA61		MDAE, HDAE, CDAE	3	40-150	480
			3VA62		MFAE, HFAE, CFAE	3	100-250	480
			3VA63		MJAE, HJAE, CJAE	3	250-400	480
			3VA64	MLAE, HLAE, CLAE	3	400-600	480	

# Fuses

## Series Connected Short Circuit Rating 480V Fuse Series Ratings

Series Rating	Main Breaker			Branch Breaker				
	Max Amps	Main Frame	Main Type	Branch Frame	Branch Type	P	Amps	Volts
100,000	40-600	Fuse	Class R	3VA61	MDAE, HDAE	3	40-150	480
	70-600	Fuse	Class R	3VA52	MFAS, HFAS	2, 3	40-250	480
	100-600	Fuse	Class R	3VA62	MFAE, HFAE	3	100-250	480
	200-600	Fuse	Class R	3VA53	MJAS, HJAS	2, 3	200-400	480
	250-600	Fuse	Class R	3VA63	MJAE, HJAE	3	250-400	480
	450-600	Fuse	Class R	3VA54	MLAS, HLAS	2, 3	450-600	480
	400-600	Fuse	Class R	3VA64	MLAE, HLAE	3	400-600	480
	40-600	Fuse	Class J	3VA61	MDAE, HDAE	3	40-150	480
	70-600	Fuse	Class J	3VA52	MFAS, HFAS	2, 3	40-250	480
	100-600	Fuse	Class J	3VA62	MFAE, HFAE	3	100-250	480
	200-600	Fuse	Class J	3VA53	MJAS, HJAS	2, 3	200-400	480
	250-600	Fuse	Class J	3VA63	MJAE, HJAE	3	250-400	480
	450-600	Fuse	Class J	3VA54	MLAS, HLAS	2, 3	450-600	480
	400-600	Fuse	Class J	3VA64	MLAE, HLAE	3	400-600	480
	40-1200	Fuse	Class T	3VA61	MDAE, HDAE	3	40-150	480
	70-1200	Fuse	Class T	3VA52	MFAS, HFAS	2, 3	40-250	480
	100-1200	Fuse	Class T	3VA62	MFAE, HFAE	3	100-250	480
	200-1200	Fuse	Class T	3VA53	MJAS, HJAS	2, 3	200-400	480
	250-1200	Fuse	Class T	3VA63	MJAE, HJAE	3	250-400	480
	450-1200	Fuse	Class T	3VA54	MLAS, HLAS	2, 3	450-600	480
	400-1200	Fuse	Class T	3VA64	MLAE, HLAE	3	400-600	480
	601-6000	Fuse	Class L	3VA61	MDAE, HDAE	3	40-150	480
	601-6000	Fuse	Class L	3VA52	MFAS, HFAS	2, 3	40-250	480
	601-6000	Fuse	Class L	3VA62	MFAE, HFAE	3	100-250	480
	601-6000	Fuse	Class L	3VA53	MJAS, HJAS	2, 3	200-400	480
	601-6000	Fuse	Class L	3VA63	MJAE, HJAE	3	250-400	480
	601-6000	Fuse	Class L	3VA54	MLAS, HLAS	2, 3	450-600	480
	601-6000	Fuse	Class L	3VA64	MLAE, HLAE	3	400-600	480

## Notes

# Notes



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