Bulletin 1492 Screw Type and Spring-Clamp IEC & NEMA Terminal Blocks

SCCR for Use with Fuses and Circuit Breakers

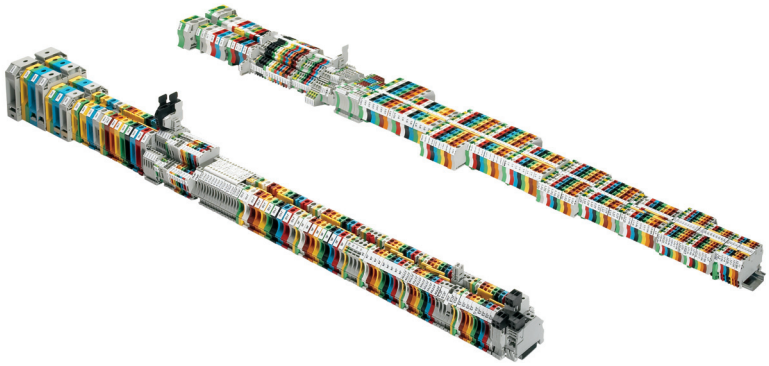
UL Recognized Per UL 1059

- Evaluated by UL for high-fault short-circuit current ratings
- UL Category Code XCFR2
- UL File Number E40735

High-fault SCCRs

- Up to 100kA at 600V when used with fuses
- Up to 65kA at 480Y when used with motor protection circuit breakers, molded case circuit breakers, and motor circuit protectors
- Up to 30kA at 600Y when used with motor protection circuit breakers, molded case circuit breakers, and motor circuit protectors

The process of obtaining SCCRs on electrical panels can be simplified when components with SCCRs are used together.



Overview

The 2005 National Electric Code (NEC) and UL 508A (effective April 25, 2006) now require many electrical panels to have short-circuit current ratings (SCCRs). Rockwell Automation is leading the industry in supplying a broad range of products with SCCRs, including but not limited to: terminal blocks, power blocks, circuit breakers, contactors, disconnects, and drives.

Rockwell Automation has tested Bulletin 1492 Screw Type and Spring-Clamp Terminal Blocks for SCCRs. These ratings allow terminal blocks to be used in conjunction with fuses, motor protection circuit breakers, and motor circuit protectors in power circuits. When components with SCCRs are used together, the process of obtaining SCCRs for UL 508A electrical panels can be simplified.

When the new UL 508A standard was adopted, all terminal blocks were granted a default 10kA SCCR for use in power circuits. The SCCR of the electrical panel is based on the component with the lowest SCCR in the circuit, creating a limitation 10kA for power circuits using terminal blocks. Many users complying with the UL 508A standard are looking to achieve overall system ratings between 25kA and 100kA. To support UL requirements, Rockwell Automation offers several Bulletin 1492 Screw Type and Spring-Clamp Terminal Blocks with high-fault SCCRs.

Ratings with Fuses

Catalog Number	Wire Range, Cu [AWG]		Overcurrent Protection Fuse Required Class/Max Amp Rating [A]						Maximum Voltage [V]	SCCR, RMS SYM [A]
	Line	Load	J	T	RK1	RK5	G	CC		
1492-J3	14…12	14…12	30	30	—	—	30	30	600	100,000
1492-J3P										
1492-JD3SS										
1492-JD3										
1492-JD3C										
1492-JG3TW										
1492-JDG3C										
1492-JG3										
1492-J3F	14…12	14…12	30	30	—	—	30	30	300	100,000
1492-J3TW										
1492-JC3										
1492-JDC3										
1492-JKD3										
1492-JD3FB										
1492-JD3F										
1492-JDG3FB										
1492-JD3PSSTP										
1492-JD3PTP										
1492-JDG3P										
1492-JDG3PSS										
1492-JDG3PSSTP										
1492-JDG3PTP										
1492-JDG3										
1492-JD3PSS										
1492-JD3P										
1492-J4	14…10	14…10	60	60	30	—	60	30	600	100,000
1492-JG4										
1492-JKD4										
1492-J4TW										
1492-J4Q										
1492-JG4TW										
1492-JG4Q										
1492-JKD4TW										
1492-JKD4Q										
1492-JKD4TP										
1492-JD4C										
1492-JD4										
1492-JKD4QTP										
1492-JKD4TWTP										
1492-JSD4	14…10	14…10	60	60	30	—	60	30	300	100,000
1492-JKD4										
1492-J4CTB										
1492-J6	14…8	14…8	100	100	60	30	60	30	600	100,000
1492-JG6										
1492-J10	14…6	14…6	100	100	60	30	60	30	600	100,000
1492-JG10										
1492-J16	14…4	14…4	100	100	60	30	60	30	600	100,000
1492-JG16										
1492-J16ND										
1492-J35	12…1/0	12…1/0	200	200	100	30	60	30	600	100,000
1492-JG35										
1492-J50	6…1/0	6…1/0	200	200	100	30	60	30	600	100,000
1492-JG50										
1492-J70	1/0…3/0	1/0…3/0	400	400	200	100	60	30	600	100,000
1492-JG70										
1492-J120	4…4/0	4…4/0	400	400	200	100	60	30	600	100,000
1492-JG120										

Catalog Number	Wire Range, Cu [AWG]		Overcurrent Protection Fuse Required Class/Max Amp Rating [A]						Maximum Voltage [V]	SCCR, RMS SYM [A]
	Line	Load	J	T	RK1	RK5	G	CC		
1492-L3	14…12	14…12	30	30	—	—	30	30	600	100,000
1492-L3Q										
1492-L3T										
1492-LD3										
1492-L3QS										
1492-LMJ3										
1492-LMJG3										
1492-LKD3										
1492-L3P										
1492-LG3T										
1492-LG3Q										
1492-LG3										
1492-LD3C										
1492-LDG3C										
1492-LDG3										
1492-LC3	14…12	14…12	30	30	—	—	30	30	300	100,000
1492-LDC3										
1492-LDG3P										
1492-LDG3ND										
1492-LDG3N										
1492-LD3N										
1492-L31P										
1492-L3Q2P										
1492-LG31P										
1492-LG3T1P										
1492-L3T1P										
1492-LDG3FB										
1492-L4	14…10	14…10	60	60	30	—	30	30	600	100,000
1492-L4Q										
1492-L4T										
1492-LD4										
1492-LD4C										
1492-LG4										
1492-LG4T										
1492-LG4Q										
1492-LD4DFX2										
1492-L6	14…8	14…8	60	60	30	—	60	30	600	100,000
1492-L6T										
1492-LG6										
1492-LG6T										
1492-LAFB6	14…8	14…8	60	60	30	—	60	30	300	100,000
1492-L10	14…6	14…6	100	100	60	30	60	30	600	100,000
1492-LG10										
1492-L16	14…4	14…4	100	100	60	30	60	30	600	100,000
1492-LG16										
1492-L35	12…2	12…2	200	200	100	30	60	30	600	100,000
1492-LG35										

Catalog Number	Wire Range, Cu [AWG]		Overcurrent Protection Fuse Required Class/Max Amp Rating [A]						Maximum Voltage [V]	SCCR, RMS SYM [A]
	Line	Load	J	T	RK1	RK5	G	CC		
1492-CAM1	14…8	14…8	60	60	30	—	50	30	600	100,000
1492-HM3										
1492-CD2	14…4	14…4	100	100	60	30	60	30	600	100,000
1492-CE2	12…1/0	12...1/0	100	100	60	30	60	30	600	100,000
1492-HM1	14…12	14…12	35	35	—	—	30	30	600	100,000

Ratings with Circuit Breakers

Catalog Number	Wire Range, Cu [AWG]		Overcurrent Protection Device Required	Maximum Current [A]	SCCR, RMS SYM [A]	
	Line	Load			480Y / 277V+	600Y / 347V+
1492-J3	14…12	14…12	140M-D8E-__	16	65,000	30,000
1492-JG3TW			140M-C2E-B10		65,000	30,000
1492-J3P			140M-C2E-B16		65,000	30,000
1492-J3			140M-C2E-B25		65,000	30,000
1492-JD3			140M-C2E-B40		65,000	25,000
1492-JD3C			140M-C2E-B63		65,000	*
1492-JD3SS			140M-C2E-A__		65,000	30,000
1492-JDG3C			140M-C2E-C10		65,000	*
1492-JG3			140MC2E-C16		30,000	*
1492-J4	14…10	14…10	140M-F8E-__	32	65,000	30,000
1492-JG4			140M-D8E-C10		65,000	30,000
1492-J4TW			140M-D8E-C16		65,000	30,000
1492-J4Q			140M-D8E-C20		65,000	*
1492-JG4TW			140M-D8E-C25		30,000	*
1492-JG4Q			140M-D8E-B__		65,000	30,000
1492-JKD4TW			140M-C2E-B10		65,000	30,000
1492-JKD4Q			140M-C2E-B16		65,000	30,000
1492-JKD4TP			140M-C2E-B25		65,000	30,000
1492-JD4C			140M-C2E-B40		65,000	25,000
1492-JD4			140M-C2E-B63		65,000	*
1492-JKD4QTP			140M-C2E-C10		65,000	*
1492-JKD4TWTP			140M-C2E-C16		30,000	*
			140M-C2E-A__		65,000	30,000
1492-J6	14…8	14…8	140M-F8E-__	32	65,000	30,000
1492-JG6			140M-D8E-C10		65,000	30,000
			140M-D8E-C16		65,000	30,000
			140M-D8E-C20		65,000	*
			140M-D8E-C25		30,000	*
			140M-D8E-B__		65,000	30,000
			140M-C2E-B10		65,000	30,000
			140M-C2E-B16		65,000	30,000
			140M-C2E-B25		65,000	30,000
			140M-C2E-B40		65,000	25,000
			140M-C2E-B63		65,000	*
			140M-C2E-C10		65,000	*
			140M-C2E-C16		30,000	*
			140M-C2E-A__		65,000	30,000

Catalog Number	Wire Range, Cu [AWG]		Overcurrent Protection Device Required	Maximum Current [A]	SCCR, RMS SYM [A]	
	Line	Load			480Y / 277V+	300V+
1492-J3TW	14…12	14…12	140M-D8E-__	16	65,000	30,000
1492-JC3			140M-C2E-B10		65,000	30,000
1492-JDC3			140M-C2E-B16		65,000	30,000
1492-J3F			140M-C2E-B25		65,000	30,000
1492-JD3F			140M-C2E-B40		65,000	25,000
1492-JKD3			140M-C2E-B63		65,000	*
1492-JD3FB			140M-C2E-A__		65,000	30,000
1492-JDG3FB			140M-C2E-C10		65,000	*
1492-JD3PSSTP			140MC2E-C16		30,000	*
1492-JD3PTP						
1492-JDG3P						
1492-JDG3PSS						
1492-JDG3PSSTP						
1492-JDG3PTP						
1492-JDG3						
1492-JD3P						
1492-JD3PSS						
1492-JKD4	14…10	14…10	140M-F8E-__	32	65,000	30,000
1492-JSD4			140M-D8E-C10		65,000	30,000
1492-J4CTB			140M-D8E-C16		65,000	30,000
			140M-D8E-C20		65,000	*
			140M-D8E-C25		30,000	*
			140M-D8E-B__		65,000	30,000
			140M-C2E-B10		65,000	30,000
			140M-C2E-B16		65,000	30,000
			140M-C2E-B25		65,000	30,000
			140M-C2E-B40		65,000	25,000
			140M-C2E-B63		65,000	*
			140M-C2E-C10		65,000	*
			140M-C2E-C16		30,000	*
			140M-C2E-A__		65,000	30,000

Catalog Number	Wire Range, Cu [AWG]		Overcurrent Protection Device Required	Maximum Current [A]	SCCR, RMS SYM [A]	
	Line	Load			480V+	600Y / 347V+
1492-J10	14…10	14…10	140M-H8P-__	50	50,000	30,000
1492-JG10						
1492-J16	14…4	14…4	140M-H8P-__	100	30,000	30,000
1492-JG16						
1492-J16ND						
1492-J35	12…2	12…2	140M-H8P-__	100	50,000	30,000
1492-JG35						
1492-J50	2…1/0	2…1/0	140M-H8P-__	150	65,000	30,000
1492-JG50						

Catalog Number	Wire Range, Cu [AWG]		Overcurrent Protection Device Required	Maximum Current [A]	SCCR, RMS SYM [A]	
	Line	Load			480V+	600V+
1492-J70	4…1/0	4…1/0	140U-J0X3	175	65,000	*
	1/0	1/0	140U-J0X3		*	30,000
1492-J120	2…3/0	2…3/0	140U-J0X3	228	65,000	30,000

* Bulletin 140M does not have ratings at this voltage.
+ Voltage terminal block was tested at for respective SCC.

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