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CONTROL CIRCUIT AND LOAD PROTECTION DEVICES

TECHNICAL DATA

Rockwell Automation has Short Circuit Current Ratings on the list of products below per the specific UL Standard and Category Code.

BULLETIN 1489
BULLETIN 1492-CB
BULLETIN 1492-FB
BULLETIN 1492-GH
BULLETIN 1492-GS
BULLETIN 1492-MC
BULLETIN 1492-SP

These ratings are included in the UL acceptance file of the device and summarized on the UL Certification site per the Category Code for the specific product.

SHORT CIRCUIT CURRENT RATINGS

Per the requirements of the 2005 National Electric Code (NEC) and UL508A (effective April 25, 2006), many electrical panels must be rated for their Short Circuit Withstand Rating. Analyzing the SCCR of individual components, and the associated branch and feeder overcurrent devices is a method of determining the SCCR of an electrical assembly.

UL Standard 508A permits these devices to have a SCCR without any additional testing.

Device	SCCR
Circuit Breaker	5 kA
Circuit Breaker With GFCI	5 kA
Fuse Holder	10 kA
Supplementary Protector	200 A

The Allen-Bradley products far exceed those ratings (see page 2).



UL489 CIRCUIT BREAKERS – CAT. CODE DIVQ
UL 508 MANUAL MOTOR STARTERS – CAT. CODE NLRV
UL 1077 SUPPLEMENTARY PROTECTORS – CAT. CODE QVNU2
UL512 FUSE HOLDERS – CAT. CODE IZLT

STANDARD PRODUCT

Rockwell Automation has tested a number of the 1492-PD Power Terminal blocks to determine their SCCR related to the new testing requirements. These are the standard Power Terminal Blocks that have been used in Industrial Control Panels.

The new ratings for these blocks permit their continued use in panels where the higher SCCR ratings are required.

HIGH FAULT SCCR RATINGS – UP TO 200,000 A
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STANDARD PRODUCTS

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Bulletin Number	Notes	UL508A Category Code	UL File Number	Poles	Current Rating	Max Voltage	SCCR	Application code/notes
1489	Circuit Breaker	DIVQ	E197878	1 pole	0.5 - 25(a) A	277 VAC	10 kA	----
					30 - 40 A	240 VAC		
				2, 3 pole	0.5 - 25(a) A	480Y/277 VAC		
					30 - 40 A	240 VAC		
1492-CB	When used as UL508 Manual Motor Controller	NLRV	E14841	1 pole	0.5 - 52A	277 VAC	5 kA	----
				2, 3 pole		480Y/277 VAC		
	Supplementary Protector	QVNU2	E65138	1, 2, 3 pole 1 + N pole 3 + N pole	0.5 - 50 A	125 VAC	10 kA	U2
						240 VAC	5 kA	U2
						480Y/277 VAC	3 kA	U2
						480Y/277 VAC	5 kA	U1
1492-FB	Fuse holder	IZLT	E34648	1, 2, 3 pole	0.1 - 30 A	1492-FB	200 kA (*)	Type CC & J (*) Interrupt rating of fuse
					35 - 60 A			Type J (*) Interrupt rating of fuse
					0.1 - 30 A		(*)	Type M (*) Interrupt rating of fuse
1492-GH	Supplementary Protector	QVNU2	E65138	1 pole	0.2 - 15 A	250 VAC	1 kA	U1
1492-GS	Supplementary Protector	QVNU2	E65138	1 pole	0.2 - 16 A	277 VAC	5 kA	C1
					20 - 25 A		3 kA	C1
					0.2 - 5 A		400 A	U1
					6 - 25 A		800 A	U1
				2, 3 pole	0.2 - 16 A	480Y/277 VAC	5 kA	C1
					20 - 25 A		3 kA	C1
					0.2 - 5 A		400 A	U1
					6 - 25 A		500 A	U1
1492-MC	Circuit Breaker	DIVQ	E197878	1, 2 pole	10 - 60 A	120/240 VAC	10 kA	1492-MCAAnnn
					70 - 100 A			1492-MCBAnnn
				2 pole	15 - 30 A	240 VAC		1492-MCAA2Hnn
					40 - 100 A			1492-MCBA2Hnn
				3 pole	15 - 30 A	240 VAC		1492-MCAA3nn
					40 - 100 A			1492-MCBA3nn
				1 pole	15 - 100 A	120 VAC	65 kA	1492-MCCA1nn
						277 VAC	14 kA	
				2 pole		240 VAC	65 kA	1492-MCCA2nn
						480Y/277 VAC	14 kA	
	Circuit Breaker with Ground Fault GFCI and GFEP			1 pole	15 - 50 A	120VAC	10 kA	1492-MCGA1nn 1492-MCEA1nn
				2 pole	15 - 50 A	120/240 VAC		1492-MCGA2nn 1492-MCEA2nn
1492-SP	Supplementary Protector	QVNU2	E65138	1 pole 1 + N pole	0.5 - 35 A	277 VAC	10 kA	U2 - B or C trip
					40 - 63 A		5 kA	U2 - B or C trip
					0.5 - 40 A		5 kA	U2 - D trip
				2, 3 pole 3 + N pole	0.5 - 35 A	480Y/277 VAC	10 kA	U2 - B or C trip
					40 - 63 A		5 kA	U2 - B or C trip
					0.5 - 40 A		5 kA	U2 - D trip

(a) Indicates 25 A @ 480Y/277 available November 2006

C1 Indicates that the short-circuit test was conducted with series overcurrent protection that is no greater than 400% of Supplementary Protector or 15 A whichever is greater. Indicates that a recalibration and dielectric test was not conducted as part of the short-circuit test.

U1 Indicates that the short-circuit test was conducted without series overcurrent protection. Indicates that a recalibration and dielectric test was not conducted as part of the short-circuit test.

U2 Indicates that the short-circuit test was conducted without series overcurrent protection. Indicates that a recalibration and dielectric test was conducted as part of the short-circuit test.

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