

CERTIFICATE OF COMPLIANCE

Certificate Number 20180402-E157194
Report Reference E157194-20000221
Issue Date 2018-APRIL-02

Issued to: Circuit Breaker Industries (Pty) Ltd
TRIPSWITCH DRIVE
ELANDSFONTEIN 1600 SOUTH AFRICA


This is to certify that representative samples of COMPONENT - PROTECTORS, SUPPLEMENTARY
See Addendum page for Models

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL1077 - Supplementary Protectors
CSA C22.2 No. 235-04 - Supplementary Protectors

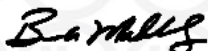
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:  may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Addendum -

USR, CNR Component - Supplementary Protectors, Type QZ1, QZ2 and QZ3 rated 0.1 through 60 A, 120, 240, 277/480 V ac, 1-3 pole, QZ1 rated 1 through 50 A, 120 V ac, 1 pole, and QZ3 rated 1 through 50 A, 240 V ac, 3 pole. Type QF-1(13), rated 0.1A through 25 A, 120V ac, 1 pole and QF-2(13), rated 0.1 through 25 A, 120/240 V ac, 2 pole.

Ratings:

Cat. No.	Type	UG	FW	Max V	Max A	TC	OL	SC Without Series Fuse	SC With Series Fuse
Type QZ	OC	A	O	277 ac	0.1-60/1P	1	0	5.0 kA, U1	5.0 kA, C1
				480 ac	0.1-60/2P	1	0	5.0 kA, U1	5.0 kA, C1
				277/480 ac	0.1-60/3P	1	0	5.0 kA, U1	5.0 kA, C1
				120 ac	0.1-60/1P	1	0	5.0 KA, U1	5.0 kA, C1
				240 ac	0.1-60/3P	1	0	5.0 KA, U1	5.0 kA, C1
				120 ac	1-50/1P	1	0	5.0 kA, U2	-
				240 ac	1-50/3P	1	0	5.0 kA, U1	-
Type QF-1(13)	OC	A	O	120 ac	0.1- 25/2P	1	0	5.0 kA, U1	-
Type QF-2(13)	OC	A	0	120/240 ac	0.1-25/2P	1	0	5.0 kA, U1	-
Type QF-2(13)	OC	A	0	120/240 ac	10-20/2P	2	0	5.0 kA, U1	-



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