


# NORTH AMERICAN RANGE

## UNDERWRITERS LABORATORIES – UL

This organisation was established in The United States of America in 1894 to help reduce or prevent loss of life, injury and damage to property by investigation of materials and products and by the publication of Standards and Codes of Practice for The United States.

Beswick holds UL listing on a range of fuse products manufactured to UL 198 G and UL recognition on fuse holders.

UL listing – 

Full type approval to appropriate UL standard

UL recognition – 

This is a limited approval for a component which may differ in construction features or performance from UL specifications but is nevertheless accepted by UL.

The table on the right displays fuses to British specification. TDC 10 is to BS2950. TDC 304 is to Def. Stan. 59-96 (Part 1)/1. TDC 455 is to British Telecom 36C/-. All others are to Beswick specification.

## CANADIAN STANDARDS ASSOCIATION – CSA



In the United Kingdom, CSA is represented by BSI. CSA provides certification services for manufacturers whose products comply with CSA standards. Canadian Standard C22.2 No. 59 TE is largely based on

UL 198 G. Beswick's UL range of fuses is also CSA approved.

Both UL and CSA carry out their own type tests.

## ELECTRONIC FUSES 32mm x 6.3mm and 20mm x 5mm PERFORMANCE DATA

FUSE TYPE & RATING		1.35 I <sub>n</sub> Max	2 I <sub>n</sub> Max	2 I <sub>n</sub> ≤ 3A Min Max		2 I <sub>n</sub> > 3A Min Max		10 I <sub>n</sub> Min Max		ASSOCIATED SPECIFICATIONS	
TDC 482	ALL RATINGS	1 HOUR	2 mins	-	-	-	-	-	-	UL 198G	CSA C22.2 No. 59.2
TDC 611	ALL RATINGS	1 HOUR	2 mins	-	-	-	-	-	-		
TDC 489	ALL RATINGS	1 HOUR	-	5 S	2 mins	12 S	2 mins	-	-		
TDC 496	ALL RATINGS	1 HOUR	2 mins	-	-	-	-	-	-		
TDC 487	ALL RATINGS	1 HOUR	2 mins	-	-	-	-	-	-		
TDC 612	ALL RATINGS	1 HOUR	2 mins	-	-	-	-	4 mS	50 mS		
TDC 488	ALL RATINGS	1 HOUR	-	5 S	2 mins	12 S	2 mins	-	-		

## ELECTRONIC FUSES 32mm x 6.3mm SIZE O PERFORMANCE DATA

FUSE TYPE & RATING		I <sub>n</sub> Min	2 I <sub>n</sub> Max	2.1 I <sub>n</sub> Max	2.2 I <sub>n</sub> Max	2.75 I <sub>n</sub> Min Max		4 I <sub>n</sub> Min Max		10 I <sub>n</sub> Min Max	
TDC 10	ALL RATINGS	-	10 S	-	-	-	-	-	-	-	-
TDC 11	ALL RATINGS	-	10 S	-	-	-	-	-	-	10 S	-
TDA 304	ALL RATINGS	-	20 S	-	-	-	-	-	-	10 mS	-
TDC 436	ALL RATINGS	-	10 S	-	-	-	-	-	-	20 mS	70 mS
TDC 455	ALL RATINGS	1000 HOURS	-	-	30 S	-	-	-	-	-	-
TDC 459	1 - 3.15A	-	-	30 mins	-	200 mS	80 S	50 mS	5 S	6 mS	55 mS
	4 - 10A	-	-	30 mins	-	1 S	80 S	150 mS	5 S	20 mS	100 mS

HIGH BREAKING CAPACITY  
CERAMIC CARTRIDGE SILVERED CAPS

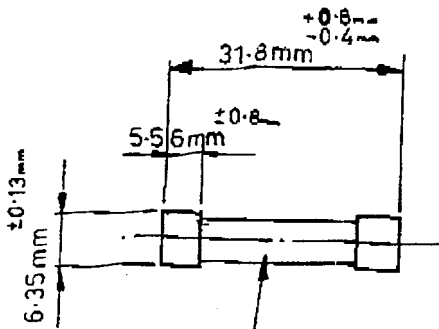
TIME - LAG

T

Beswick Type Ref.

TDC 459

SPECIFICATION



MARKING  
BARREL PRINT.  
ⒶALERT.  
T RATED CURRENT.  
RATED VOLTAGE.

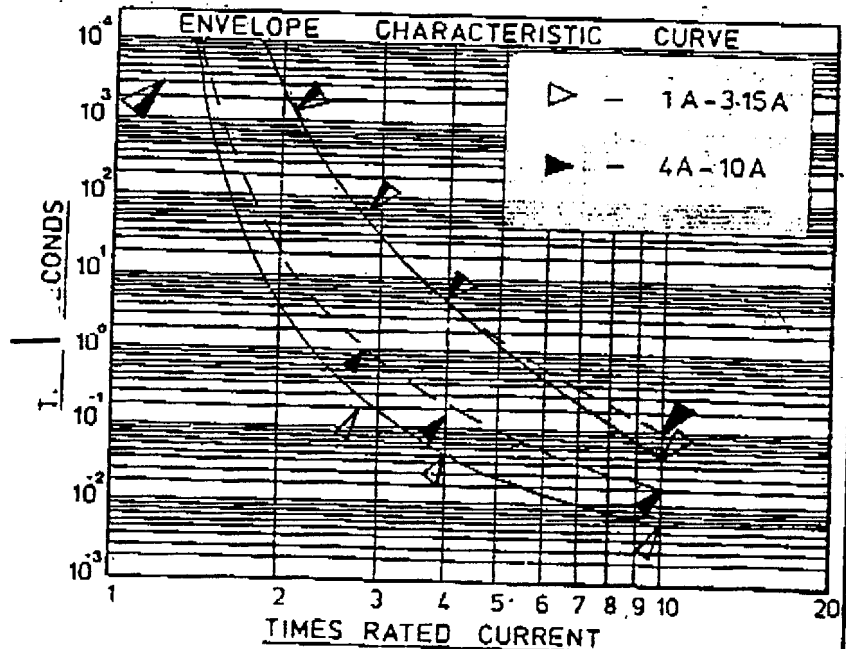
RATED CURRENT	MAX mv DROP @ In	RATED VOLTAGE	
		AC	
1A			
1-25A	350	250	
1-6A	300	250	
2A	250	250	
2-5A	250	250	
2-5A	200	250	
3-15A	180	250	
4A	160	250	
5A	150	250	
6-3A	140	250	
8A	120	250	
10A	110	250	

PERFORMANCE

CURRENT		2-1In		2-75 In		4 In		10 In	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
TOTAL OPERATING TIME	1A - 3-15 A	-	30 Mins	200mS	80 S	50mS	5 S	6mS	55mS
	4A - 10A	-	30 Mins	1S	80 S	150mS	5 S	20mS	100mS

**BREAKING CAPACITY**  
1500A, 250V, P.f. 0.7-0.8

**ENDURANCE**  
1h @ 1.05 In FOLLOWED  
BY 15Mins OFF REPEATED  
100 TIMES THEN 1h @  
1.2 In.



All goods are sold and services and advice rendered in connection therewith subject only to the Company's Standard Conditions of Sale.



**BUSSMANN**

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1	4151	3.4.84
ISS	REVISION	DATE