

Spec Sheet: IPD Blue Line 415V AC

- ASTA 20 CERT certified, **guaranteed performance**
- Complies to the RoHS European Directive, **free from heavy metals**
- Manufactured by Mersen to ISO 9001, **high quality**
- **NEW** screen printing barrel, **ideal for outdoor use**
- Tested to 80kA, **high short circuit strength**
- Designed to suit IPD RS fuse fittings
- Utilisation categories gG and gM

Standards

Australian Standard AS60269 and BS88 Part 1&2



Technical

Utilisation Categories 'gG' and 'gM'

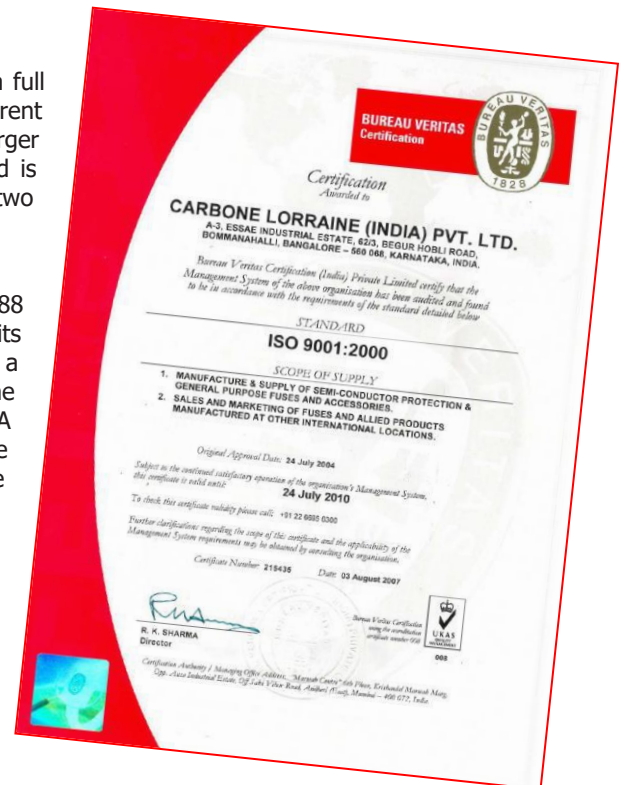
Some of the fuse link types used in some European Countries have only **partial range breaking** capacity (ie, they interrupt short circuit fault currents, but are unable to interrupt overload currents safely). To distinguish these types from the much more widely used **general purpose** fuse links, the concept of 'utilisation category' has been introduced in the international standard IEC269.


Since AS2005 & BS88 are based upon IEC269, it includes the same utilisation classes, each of which is defined by a two letter code. The first letter indicates the breaking range of the fuse link, as follows: **'g'** **full range** breaking capacity fuse link. **'a'** **partial range** breaking capacity fuse link. The second letter indicates utilisation category, as follows: **'G'** Fuse link for general application, including the protection of motor circuits. **'M'** Fuse link for protection of motor circuits. The standards combine these letters to recognise three classes ie, gG, gM and aM.

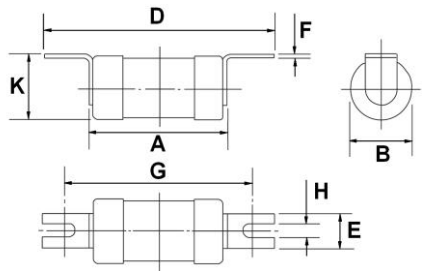
All type 'N&T' fuse links are classified as either gG or gM, and so have a full range breaking capacity. A class gM fuse link has a dual basis of current rating, the smaller one of which is its continuous rating (In), whilst the larger one is its rating with respect to its time/current characteristics (Ich) and is thus an indication of its ability to withstand motor starting surges. The two ratings are separated by an 'M' in list numbers, eg, 32M63.

A class gG fuse link has only one, continuous rating. BS88:Part 2:1988 specifies a time/current zone for each current rating within which its published time/current characteristics must lie. The time/ current zone for a gM type is defined according to its larger current rating, and thus the characteristics of a 32M63 rating must fall within the same zone as a 63A class gG rating. Class gM fuse links exist only to enable economies to be achieved in the size of equipment used in motor circuits, eg, 32M63 fuse links can be fitted in 32A fuse holders in a 15kW, 415V, direct on line motor circuit, instead of 63A gG fuse links in 63A fuse holders, because although the motor starting surge required the use of fuse links with 63A time/current characteristics, the motor FLC is less than 32A (about 28A). It should therefore be noted that gM fuse links complement the standard range of ratings, ie, gG types are also used in many motor circuits, with gM ratings applied only when there is an economic advantage to be gained from their use.

Note: NIT series are 550V AC





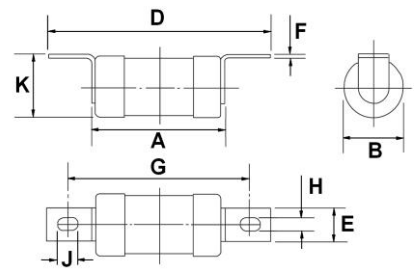
Type	Off-set tags	Current (A)	Catalogue Number	A	B	D	E	F	G	H	K
 (2 hole fixing)	2A	NIT2	35.5	13.5	56.0	11.2	0.8	44.5	4.8	14.5	
	4A	NIT4									
	6A	NIT6									
	10A	NIT10									
	16A	NIT16									
	20A	NIT20									
	25A	NIT25									
	32A	NIT32									
	25A	NIT20M25									
	32A	NIT20M32									



Dimensions in mm

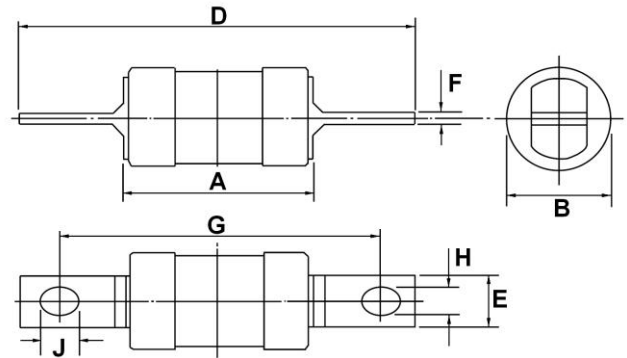
NIT series is 550V AC

Type	Off-set tags	Current (A)	Catalogue Number	A	B	D	E	F	G	H	J	K
 (2 hole fixing)	2A	TIA2L	35.5	13.5	86.0	9.2	0.8	73.0	5.5	8.0	14.5	
	4A	TIA4L										
	6A	TIA6L										
	10A	TIA10L										
	16A	TIA16L										
	20A	TIA20L										
	25A	TIA25L										
	32A	TIA32L										
	25A	TIA25L										
	32A	TIA32L										
TIS 35-100A 	32M35	TIA32M35L										
	32M40	TIA32M40L	56.5	21.9	86.0	9.2	1.2	73.0	5.5	8.0	23.5	
	32M50	TIA32M50L										
	32M63	TIA32M63L										
	35	TIS35L										
	40	TIS40L	57.0	21.9	88.5	13.0	1.2	73.0	5.5	12.0	23.5	
OS 80-125A	50	TIS50L										
	63	TIS63L										
	80	TIS80L										
	100	TIS100L	56.5	27.0	86.0	13.0	1.6	73.0	9.5	12.0	28.0	
TCP 63-200A	63M80	TIS63M80L										
	63M100	TIS63M100L										
	80	OS80										
TFP 125-315A	100	OS100	57.7	26.3	88.6	12.7	1.3	73.0	5.1	7.5	17.1	
	100M125	OS100M125										
	63	TCP63L										
	80	TCP80L	59.5	26.9	111.0	19.5	2.4	94.0	11.0	8.7	28.5	
	100	TCP100L										
TFP 125-315A	100M125	TCP100M125L										
	100M160	TCP100M160L										
	100M200	TCP100M200L	47.0	31.0	111.0	19.5	3.2	94.0	8.7	8.7	32.5	
	125	TFP125L										
	160	TFP160L										
TFP 125-315A	200	TFP200L										
	200M250	TFP200M250L	76.0	41.0	111.0	19.5	3.2	94.0	11.0	8.7	44.0	
	200M315	TFP200M315L										

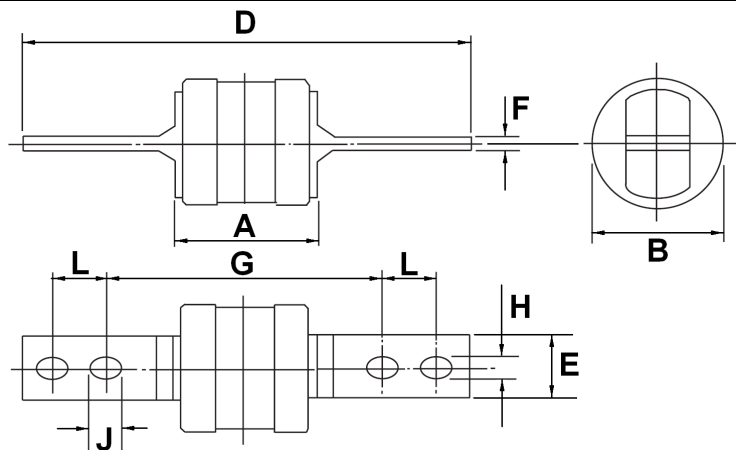


Dimensions in mm

Type	Centre tags	Current (A)	Catalogue Number	A	B	D	E	F	G	H	J
(2 hole fixing)	80A	80A	TC80L	57.0	26.9	137.0	19.5	3.2	111.0	8.7	14.0
	100A	100A	TC100L								
	125A	125A	TF125L								
	160A	160A	TF160L	63.0	36.1	137.0	19.5	3.2	111.0	8.7	14.0
	200A	200A	TF200L								
	200M250	200M250	TF200M250L	73.0	41.9	138.0	19.5	3.2	111.0	8.7	14.0
	200M315	200M315	TF200M315L								
	250A	250A	TKF250L								
	315A	315A	TKF315L								
	315M400	315M400	TKF315M400L	75.0	59.0	138.0	26.0	4.8	111.0	8.7	14.0
	355A	355A	TMF355L								
	400A	400A	TMF400L								
	250A	250A	TKM250L	73.0	41.9	159.0	26.0	3.2	133.0	10.3	14.0
	315A	315A	TKM315L								



Type	Centre tags	Current (A)	Catalogue Number	A	B	D	E	F	G	H	J	L
(4 hole fixing)	355A	355A	TM355L	75.0	59.1	212.0	26.0	4.8	133.0	10.3	16.0	25.4
	400A	400A	TM400L									
	450A	450A	TTM450L	83.0	74.4	212.0	26.0	6.3	133.0	10.3	16.0	25.4
	500A	500A	TTM500L									
	560A	560A	TTM560L									
	630A	630A	TTM630L	86.0	82.4	212.0	26.0	9.5	133.0	10.3	16.0	25.4
	670A	670A	TLM670L									
	710A	710A	TLM710L									
	750A	750A	TLM750L									
	800A	800A	TLM800L									



Installation: use in IPD RS fuse fittings

Type N Performance Data 2 – 32A

Current Rating (A)	BS Cat	Pre-Arc I ² t (A ² sec)	Total I ² t (A ² sec) @ 415V	Watts Loss (W)	Voltage (AC)	Breaking Capacity (AC)	Voltage (DC)	Breaking Capacity (DC)
2	gG	1.0	3.5	0.9	550V	80kA	240V	40kA
4		7.6	26	1.5				
6		28	100	1.8				
10		70	315	1.2				
16		120	540	1.6				
20		250	1125	1.7				
25		420	1890	2.0				
32		670	3000	2.9				
20M25	gM	420	1890	1.3	550V	80kA	240V	40kA
20M32		670	3000	1.1				

Type T Performance Data 2 – 315A

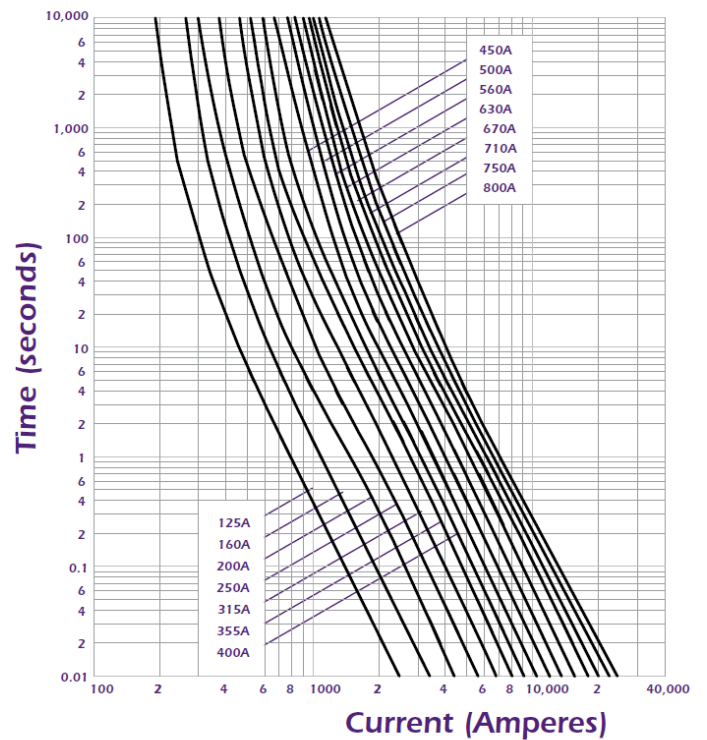
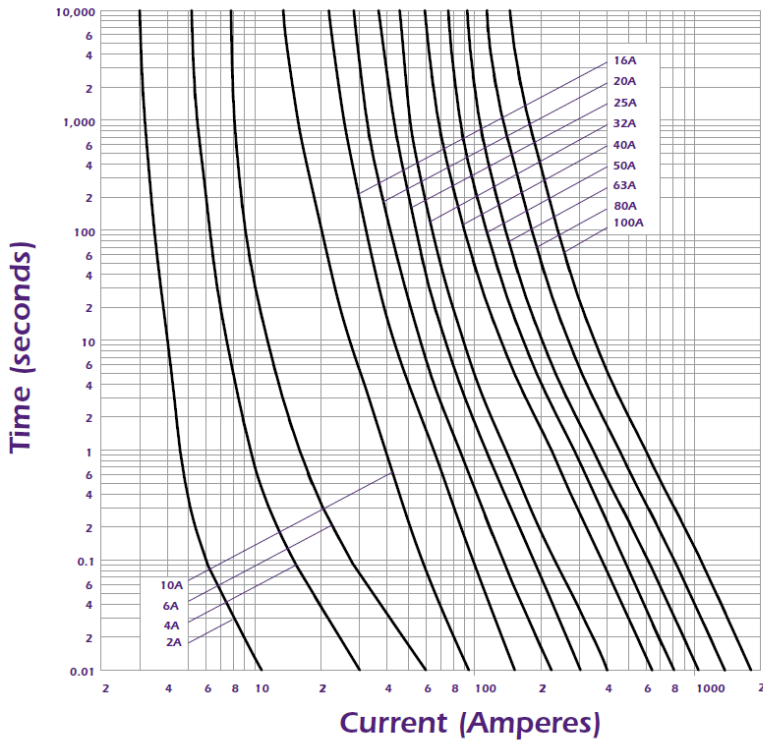
Current Rating (A)	BS Cat	Pre-Arc I ² t (A ² sec)	Total I ² t (A ² sec) @ 415V	Watts Loss (W)	Voltage (AC)	Breaking Capacity (AC)	Voltage (DC)	Breaking Capacity (DC)					
2	gG	1.0	3.5	0.9	415V	80kA	240V	40kA					
4		7.6	26	1.5									
6		28	100	1.8									
10		70	315	1.2									
16		120	540	1.6									
20		250	1125	1.7									
25		420	1890	2.0									
32		670	3000	2.9									
35		700	4500	3.6									
40		1300	5850	4.0									
50		2600	11700	4.8									
63		4000	17500	5.9									
32M35		gM	700	4500					3.6	415V	80kA	240V	40kA
32M40			1.0	3.5					4.0				
32M50	7.6		26	2.6									
32M63	28		100	1.6									
80	gG	8500	38250	6.5	415V	80kA	240V	40kA					
100		14000	65000	7.5									
125		28000	78400	11.3									
160		60000	168000	14.0									
200		105000	293000	16.2									
63M80		8500	38250	4.0									
63M100	14000	65000	3.0	415V	80kA	240V	40kA						
100M125	28000	78400	7.2										
100M160	60000	168000	5.5										
100M200	105000	293000	4.1										
200M250	190000	532000	15.4										
200M315	270000	756000	12.5										



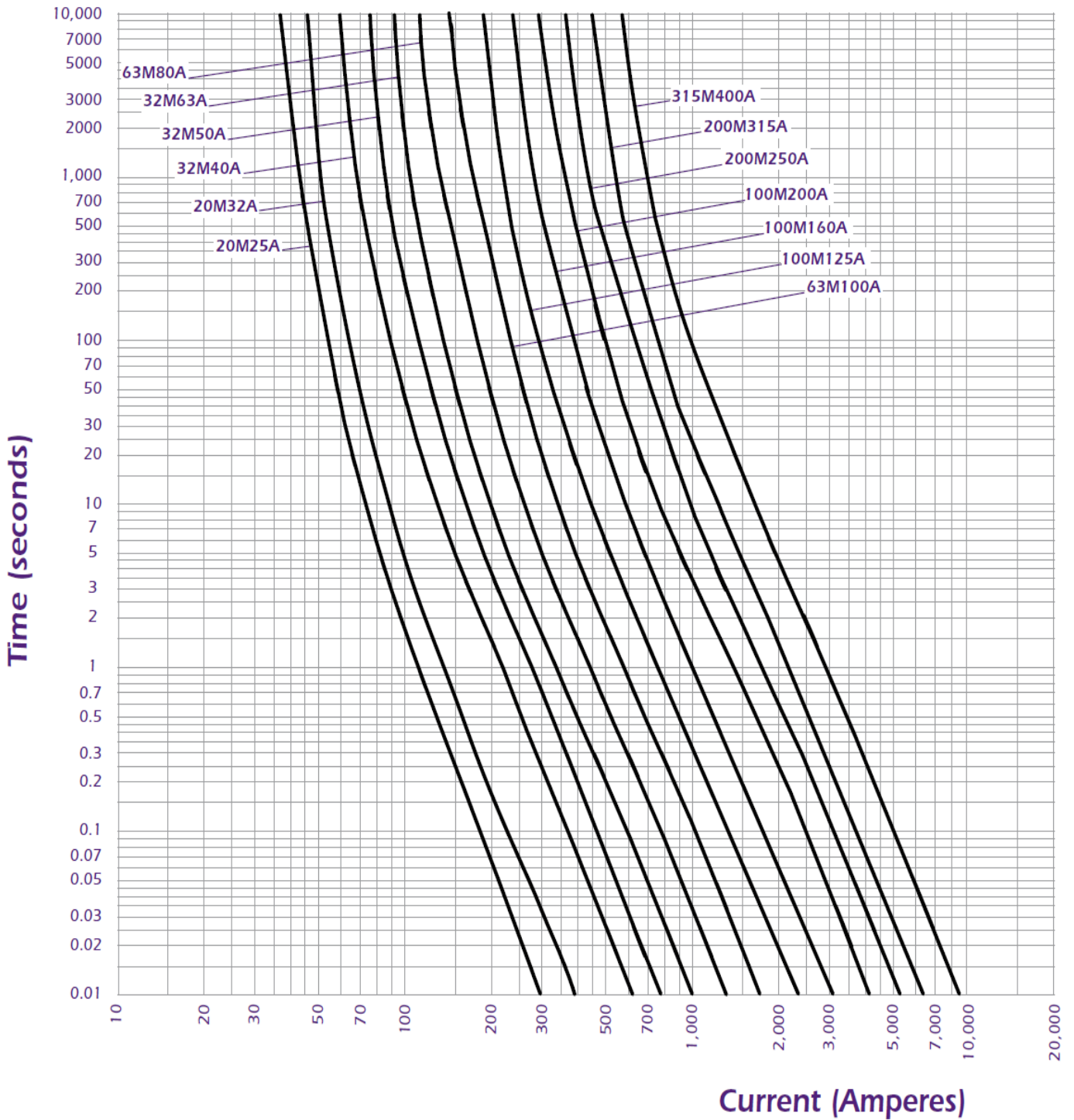
Type T Performance Data 80 – 800A

Current Rating (A)	BS Cat	Pre-Arc I ² t (A ² sec)	Total I ² t (A ² sec) @ 415V	Watts Loss (W)	Voltage (AC)	Breaking Capacity (AC)	Voltage (DC)	Breaking Capacity (DC)
80	gG	8500	38250	6.5	415V	80kA	240V	40kA
100		14000	65000	7.5				
125		28000	78400	11.3				
160		60000	168000	14.0				
200		105000	293000	16.2				
250		190000	532000	24.0				
315		270000	756000	31.0				
355		395000	1106000	32.0				
400		505000	1414000	38.0				
100M125		gM	28000	78400				
100M160	60000		168000	5.5				
100M200	105000		293000	4.1				
200M250	190000		532000	15.4				
200M315	270000		756000	12.5				
315M400	505000	1414000	23.5					
450	gG	650000	1820000	42.0				
500		850000	2380000	48.0				
560		120000	3360000	50.0				
630		1546000	4437000	54.0				
670		1950000	5460000	60.0				
710		2400000	6720000	62.0				
750		3000000	8400000	65.0				
800		3769000	10900000	68.0				

gG curves - 2 to 800A - 415VAC



gM curves - 20M25 to 315M400A - 415VAC



Cut-off Current Characteristics A,B,C & F Type

