Selection Plus

Project Name : IPD Building
File Name : MSB-1 Project file

Study Conducted by : Gary McCready
Date : 23-11-2017

Discrimination/Backup Level

	Upstream device (L1)						Downstream device (L2)						Discrimination /Backup (kA)
Graph	ID	Type	Part No.	In (A)	Ir (A)	Ics (kA)	ID	Type	Part No	In (A)	Ir (A)	Ics (kA)	
G1,G2,G3,G4,G5,G6	22kV Protection	User Defined	NA	NA	NA	NA	Inc 1	AIR	MPA31W12-X	1250	1250	50	--/--

	Upstream device (L2)						Downstream device (L3)						Discrimination /Backup (kA)
Graph	ID	Type	Part No.	In (A)	Ir (A)	Ics (kA)	ID	Type	Part No	In (A)	Ir (A)	Ics (kA)	
G1,G2	Inc 1	AIR	MPA31W12-X	1250	1250	50	Feeder-1	MCCB	FGN37DA400LF	400	400	50	50/50
G3	Inc 1	AIR	MPA31W12-X	1250	1250	50	Feeder-2	MCCB	FGN37DA400LF	400	400	50	50/50
G4	Inc 1	AIR	MPA31W12-X	1250	1250	50	Feeder-3	MCCB	FEN37DA250KF	250	200	50	50/50
G5,G6	Inc 1	AIR	MPA31W12-X	1250	1250	50	Feeder-4	MCCB	FGN37DA630NF	630	630	50	50/50

	Upstream device (L3)						Downstream device (L4)						Discrimination /Backup (kA)
Graph	ID	Type	Part No.	In (A)	Ir (A)	Ics (kA)	ID	Type	Part No	In (A)	Ir (A)	Ics (kA)	
G1	Feeder-1	MCCB	FGN37DA400LF	400	400	50	TOB-1	MCCB	FEN36TA160JF	160	160	50	50/50
G2	Feeder-1	MCCB	FGN37DA400LF	400	400	50	TOB-2	MCCB	FEN37DA250KF	250	250	50	15/50
G3	Feeder-2	MCCB	FGN37DA400LF	400	400	50	DB-L3	MCCB	FEN37DA250KF	250	200	50	15/50
G4	Feeder-3	MCCB	FEN37DA250KF	250	200	50	DB-1	MCB	G63C63	63	NA	6	30/30
G5	Feeder-4	MCCB	FGN37DA630NF	630	630	50	TOB-3	FUSE	DIN	NA	NA	NA	--/--
G6	Feeder-4	MCCB	FGN37DA630NF	630	630	50	TOB-4	FUSE	DIN	NA	NA	NA	--/--

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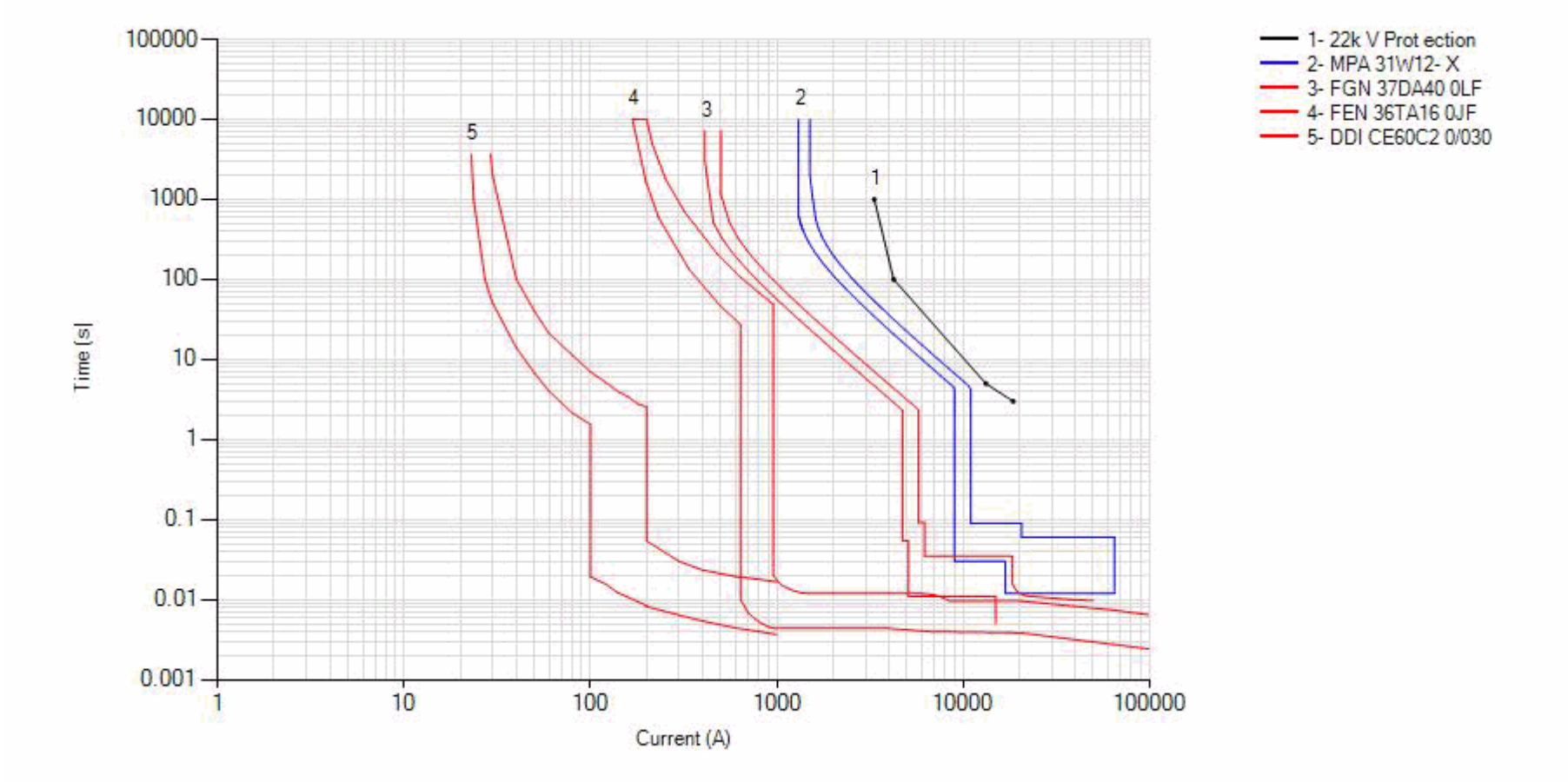
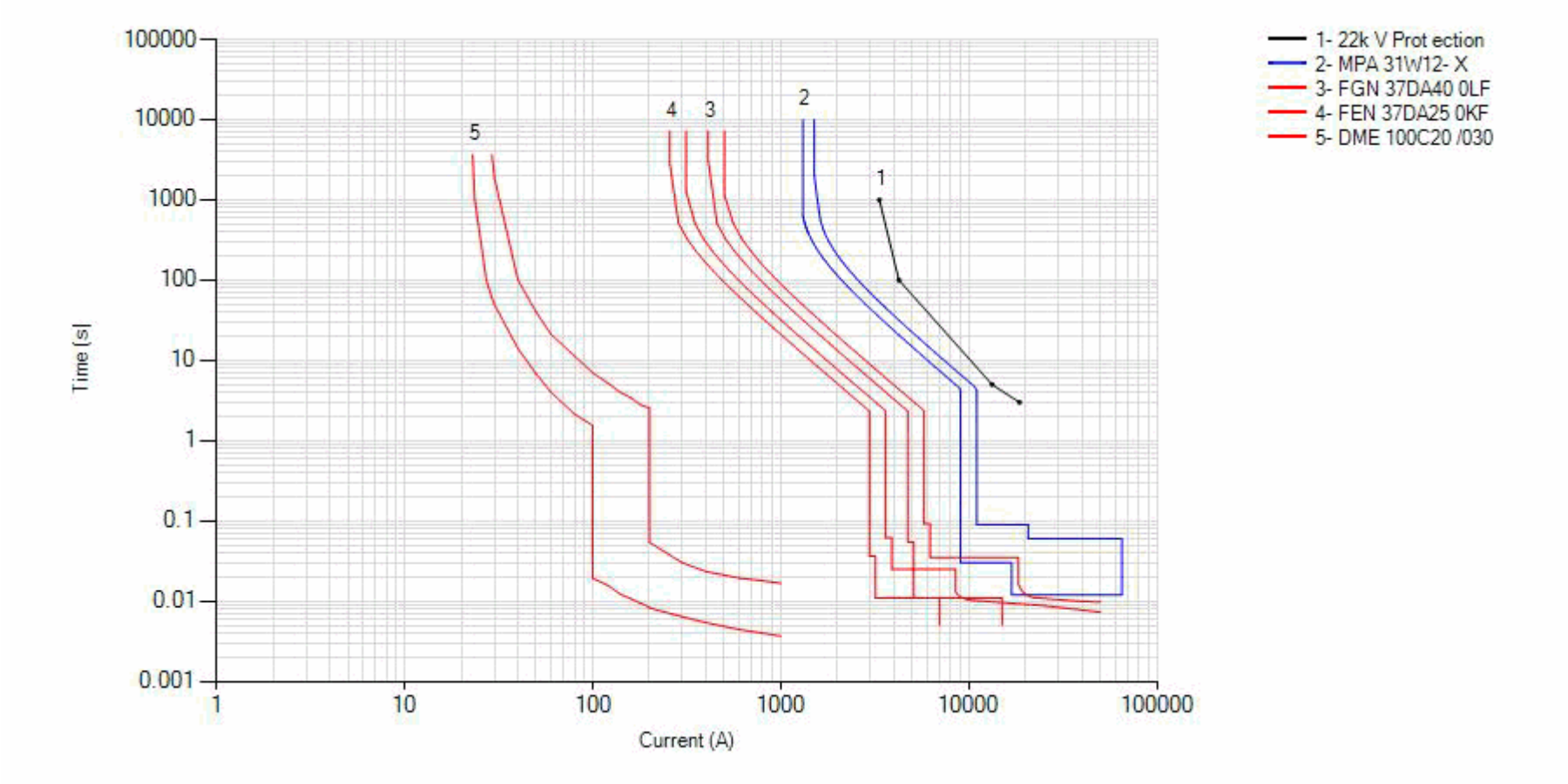
	Upstream device (L4)						Downstream device (L5)						Discrimination /Backup (kA)
Graph	**ID**	**Type**	**Part No.**	**In (A)**	**Ir (A)**	**Ics (kA)**	**ID**	**Type**	**Part No**	**In (A)**	**Ir (A)**	**Ics (kA)**	
G1	TOB-1	MCCB	FEN36TA160JF	160	160	50	DB-L1	RCBO	DDICE60C20/030	20	NA	6	6/20
G2	TOB-2	MCCB	FEN37DA250KF	250	250	50	DB-L2	RCBO	DME100C20/030	20	NA	10	18/28
G3	DB-L3	MCCB	FEN37DA250KF	250	200	50	Ltg	MCB	G63C63	63	NA	6	30/30
G4	DB-1	MCB	G63C63	63	NA	6	Office Loadcentre	RCBO	DMEA100C20/010	20	NA	10	--/--
G5	TOB-3	FUSE	DIN	NA	NA	NA	DB-H	MCB	G63C32	32	NA	6	--/--
G6	TOB-4	FUSE	DIN	NA	NA	NA	DB-Kitchen	RCBO	DME100C20/030	20	NA	10	--/--

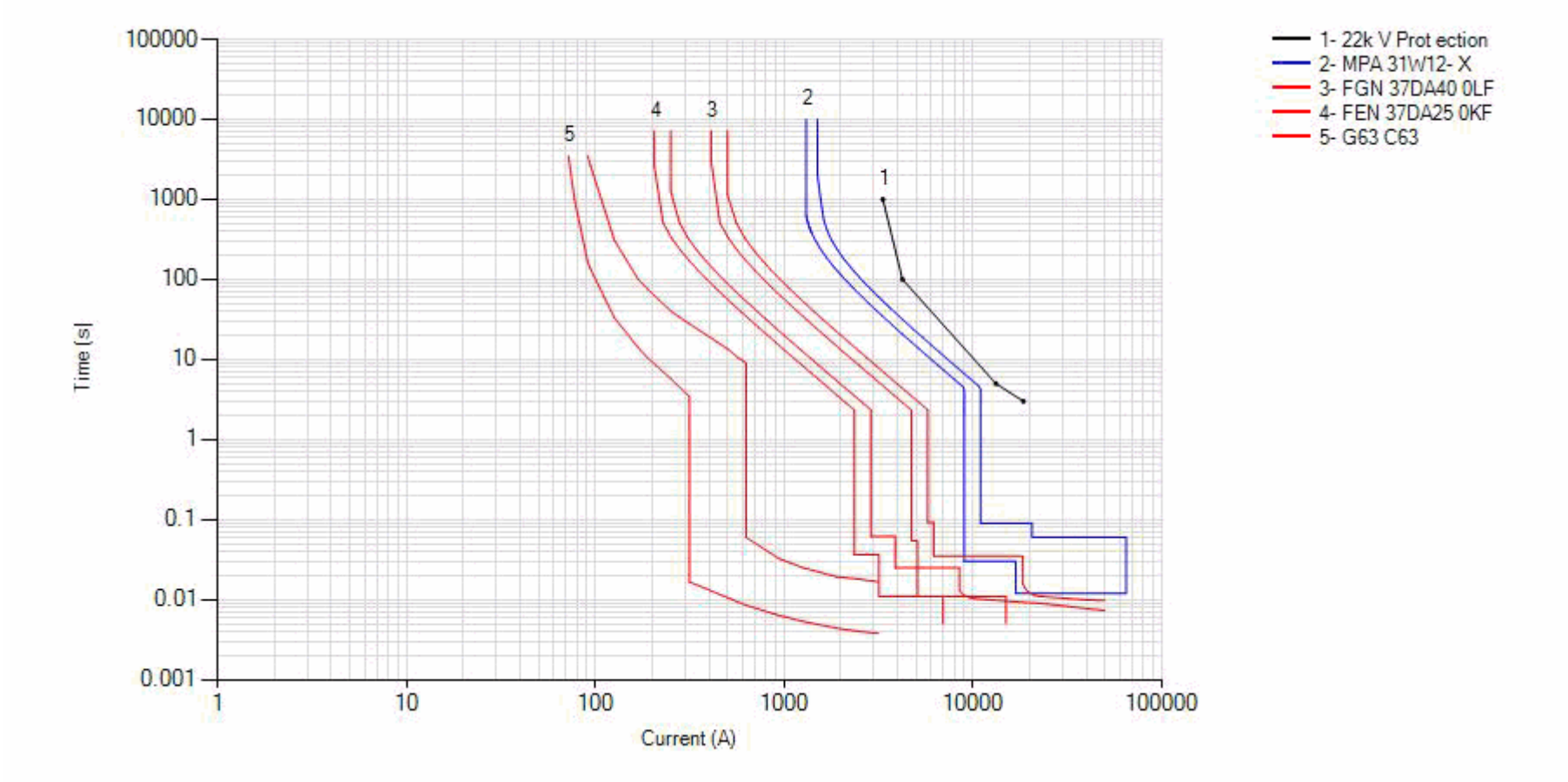
Time Current Graph - G1



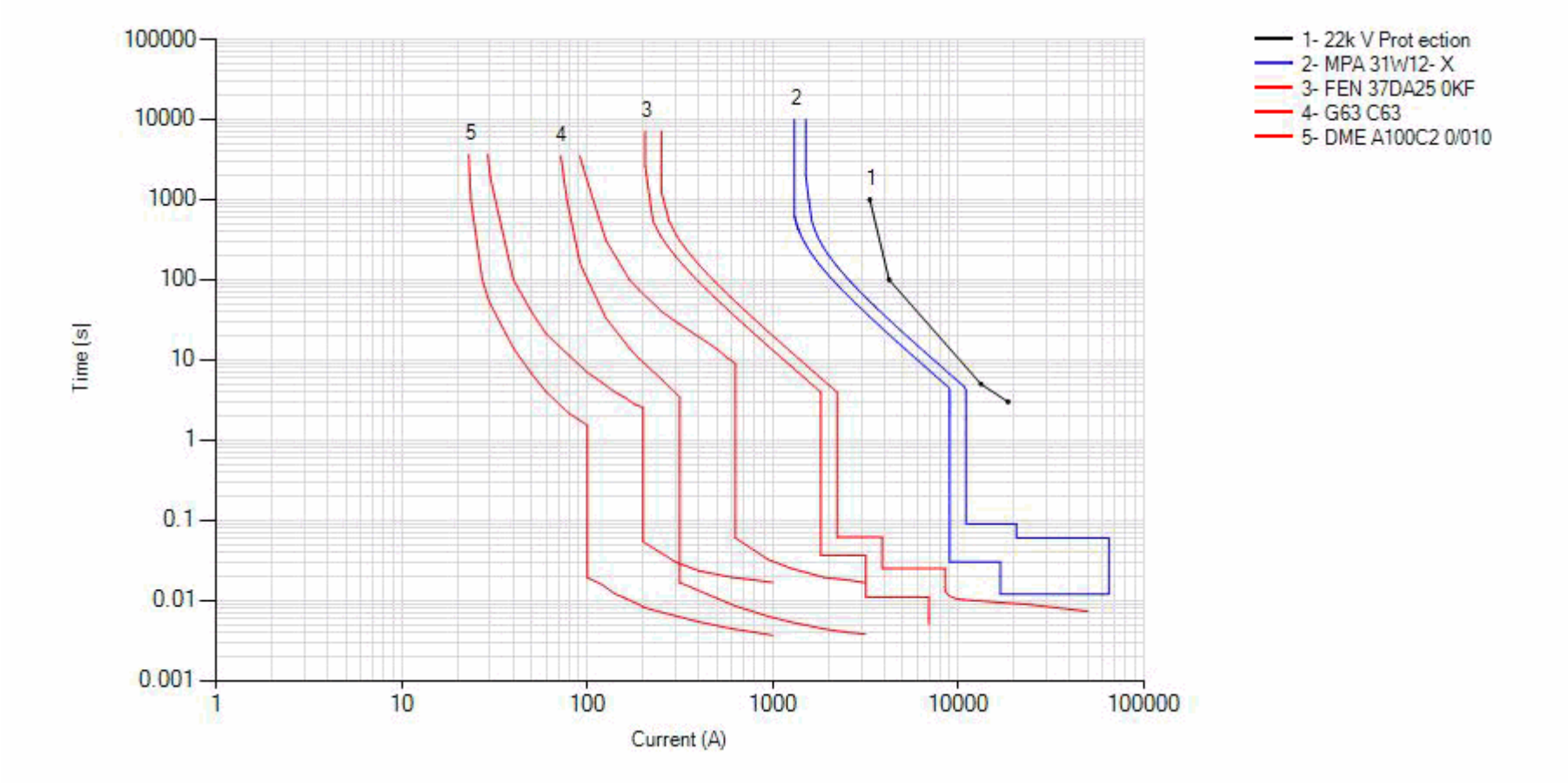
Time Current Graph - G2



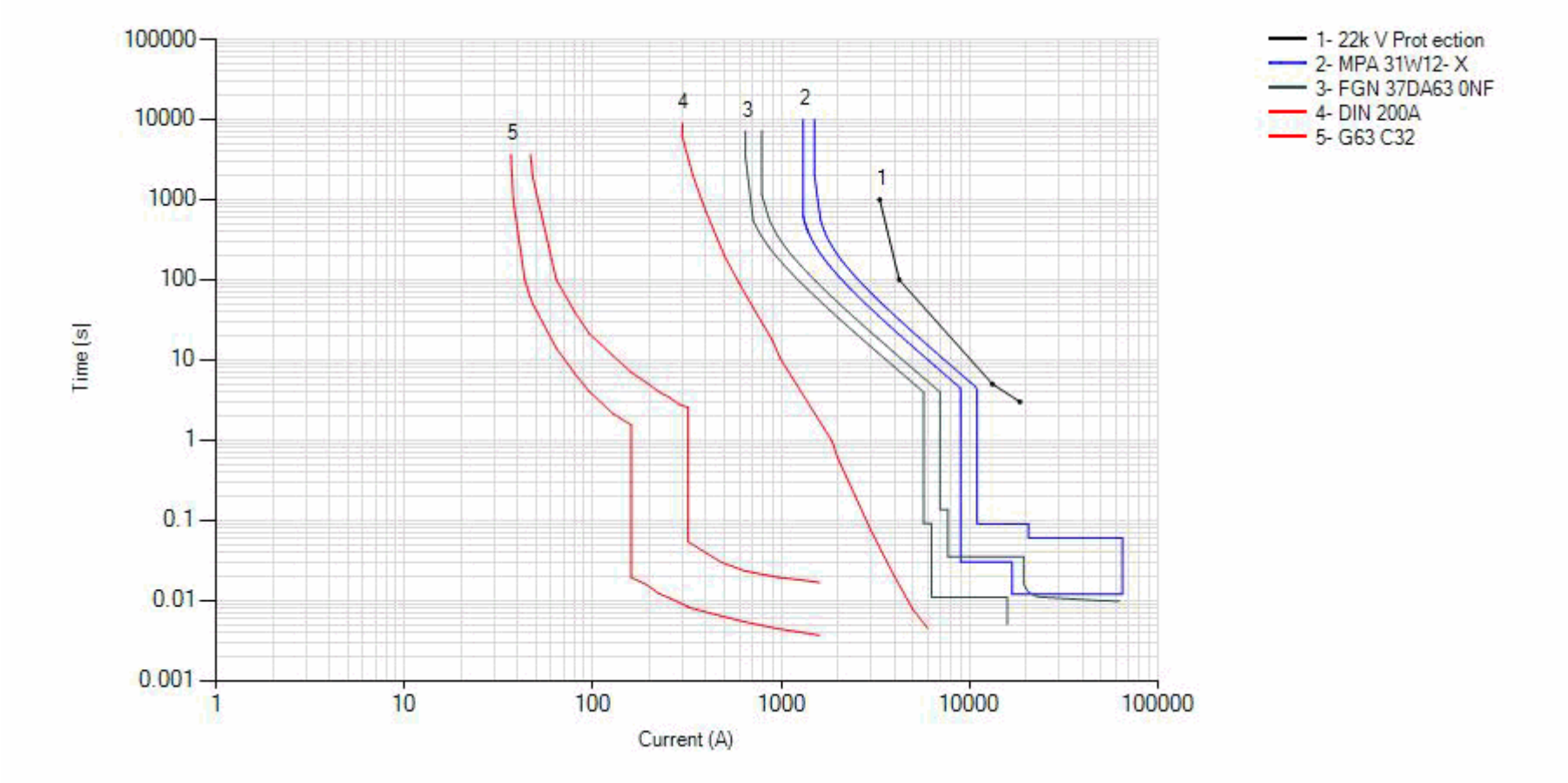
Time Current Graph - G3



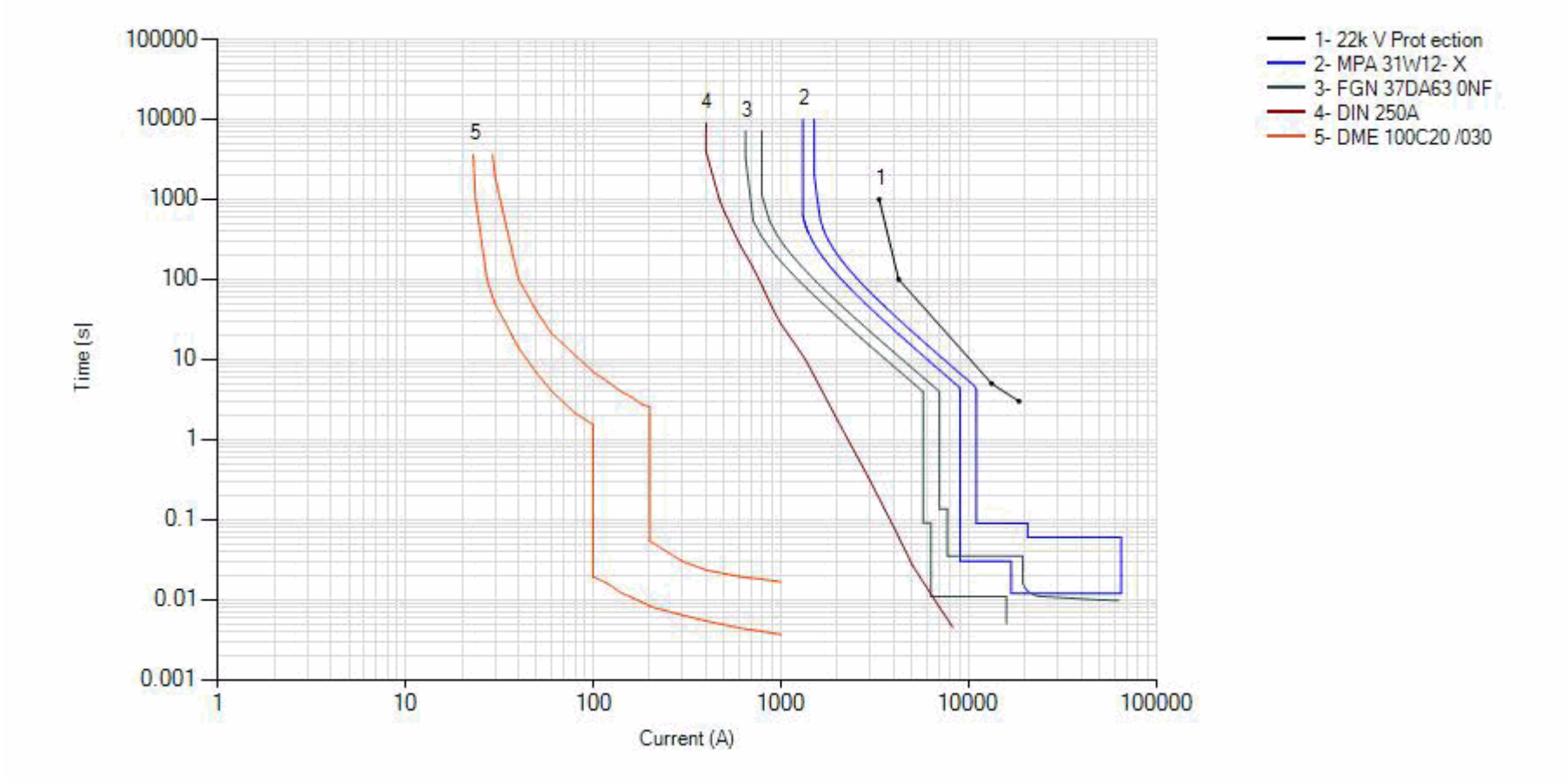
Time Current Graph - G4



Time Current Graph - G5



Time Current Graph - G6



Trip unit settings

Graph	Curve Ref	Device ID	Device Type	Part No	Ue (V)	In (A)	Ics (kA)	Trip Unit	Trip unit settings
G1,G2,G3, G4,G5,G6	1	22kV Protection	UserDefined	NA	NA	NA	NA	NA	Tolerance Amount: 0%, Tolerance Above: No, Tolerance Below: No
G1,G2,G3, G4,G5,G6	2	Inc 1	ACB	MPA31W12-X	415	1250	50	MPRO27	Lt:1250A, Curve:C10, ST: Lt x 8, STD:1, Short Time Slope:Off, Ii: In x 15
G1,G2	3	Feeder-1	MCCB	FGN37DA400LF	415	400	50	PremEon	Thermal Setting Ir:400A, Magnetic Setting Im: In x 13
G1	4	TOB-1	MCCB	FEN36TA160JF	415	160	50	LTM	Thermal Setting Ir:160A, Magnetic Setting Im: In x 5
G1	5	DB-L1	RCBO	DDICE60C20/030	240	20	6	NA	NA
G2	4	TOB-2	MCCB	FEN37DA250KF	415	250	50	PremEon	Thermal Setting Ir:250A, Magnetic Setting Im: In x 13
G2	5	DB-L2	RCBO	DME100C20/030	240	20	10	NA	NA
G3	3	Feeder-2	MCCB	FGN37DA400LF	415	400	50	PremEon	Thermal Setting Ir:400A, Magnetic Setting Im: In x 13
G3	4	DB-L3	MCCB	FEN37DA250KF	415	250	50	PremEon	Thermal Setting Ir:200A, Magnetic Setting Im: In x 13
G3	5	Ltg	MCB	G63C63	415	63	6	NA	NA
G4	3	Feeder-3	MCCB	FEN37DA250KF	415	250	50	PremEon	Thermal Setting Ir:200A, Magnetic Setting Im: In x 10
G4	4	DB-1	MCB	G63C63	415	63	6	NA	NA
G4	5	Office Loadcentre	RCBO	DMEA100C20/010	240	20	10	NA	NA
G5,G6	3	Feeder-4	MCCB	FGN37DA630NF	415	630	50	PremEon	Thermal Setting Ir:630A, Magnetic Setting Im: In x 10
G5	4	TOB-3	FUSE	DIN200A		200		NA	NA
G5	5	DB-H	MCB	G63C32	415	32	6	NA	NA
G6	4	TOB-4	FUSE	DIN250A		250		NA	NA
G6	5	DB-Kitchen	RCBO	DME100C20/030	240	20	10	NA	NA

Notes

No Fault levels given Assumed MSB-50kA.
DB's 10kA rated IP42.

Disclaimer

The time current curves in this report represent the trip unit curves as provided by GE. Assessment of discrimination performance using these time current curves should take into account tolerance and a separation factor deemed acceptable by the customer.
The curves do not take into account temperature deratings and should be considered cold curves (no preheating from previous starting currents/overloads etc).

Figures provided include Backup and Selectivity/Discrimination limits as per AS/NZS 3000 and AS/NZS 60947-2 they are supplied from GE published catalogues and take into account the selectivity/discrimination limits published by GE. Please refer to GE for any additional information.
Example, Where 10/30 (discrimination/Backup kA) value means Selectivity is full up to 10kA and provide a backup protection up to 30kA