



Modula Plus 800

MCCB Panelboards
Industrial and commercial



GE imagination at work

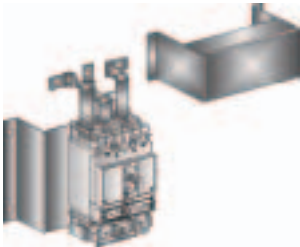
Quick selector guide

The quick selector guide shortlists the most commonly used products from the main catalogue to speed up your selection process. For a comprehensive listing please refer to the page indicated.

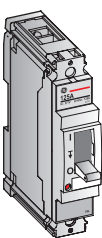
Compact panelboards - 500 mm wide

 Side Incomer Bottom incomer	TP ways	Page	Order Code 250A	Page	Order Code 400A
	3	13	MOD8SEPB4C	-	-
	6	13	MOD8PB2506C	14	MOD8PB4006C
	8	13	MOD8PB2508C	14	MOD8PB4008C
	12	13	MOD8PB25012C	14	MOD8PB40012C

Incomers - 3 pole

	Type	Page	250A	Page	400A
	Isolator	13	MOD8ISO2503C	14	MOD8ISO4003C
	MCCB	13	MOD825MI2503C	14	MOD8MI4003C
	Direct	13	MOD8DC250C	14	MOD8DC400C
	Side incomer	13	FEY306D250KF	-	-

Outgoing MCCB's - 1 pole

	In (A)	Page	Order Code	Important note All 1P MCCB's require a FD1PM mount 1 x FD1PM can accept 3 x 1P MCCB's
	16	16	FDN13TF016EU	
	20	16	FDN13TF020EU	
	25	16	FDN13TF025EU	
	32	16	FDN13TF032EU	
	40	16	FDN13TF040EU	
	50	16	FDN13TF050EU	
	63	16	FDN13TF063EU	
	80	16	FDN13TF080GU	
	100	16	FDN13TF100GU	
	125	16	FDN13TF125GU	
	160	16	FDN13TF160GU	

Accessories

	Description	Order Code	Page
	1P FD frame MCCB busbar mount	FD1PM	16
	Busbar cover plate 3P	FBCI3	17
	Cover blanking plate 1.2m	FBF6	17
	Spreader box - compact	MOD8SBC	18
	Modular device box 18 mod - compact	MOD8MX18C	18

Contents

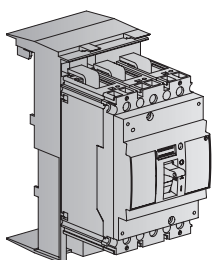
- 4-11 • Benefits
- 12-18 • Order codes
- 20-25 • Technical data
- 26 • Numerical index

Standard panelboards - 750 mm wide

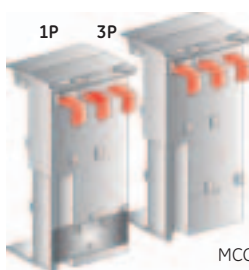
TP ways	Page	Order Code 630A	Page	Order Code 800A
6	15	MOD8PB6306S	15	MOD8PB8006S
8	15	MOD8PB6308S	15	MOD8PB8008S
12	15	MOD8PB63012S	15	MOD8PB80012S
18	15	MOD8PB63018S	15	MOD8PB80018S

Incomers - 3 pole

Type	Page	630A	Page	800A
Isolator	15	MOD8ISO6303S	15	MOD8ISO8003S
MCCB	15	MOD863MI6303S	15	MOD8MI8003S
Direct	15	MOD8DC630S	15	MOD8DC800S

Outgoing MCCB's - 3 pole

In (A)	Page	18kA	Page	36kA
16	16	FDC36TE016ET	16	FDS36TD016ET
20	16	FDC36TE020ET	16	FDS36TD020ET
25	16	FDC36TE025ET	16	FDS36TD025ET
32	16	FDC36TE032ET	16	FDS36TD032ET
40	16	FDC36TE040ET	16	FDS36TD040ET
50	16	FDC36TE050ET	16	FDS36TD050ET
63	16	FDC36TE063ET	16	FDS36TD063ET
80	16	FDC36TE080GT	16	FDS36TD080GT
100	16	FDC36TE100GT	16	FDS36TD100GT
125	16	FDC36TE125GT	16	FDS36TD125GT
160	16	FDC36TE160GT	16	FDS36TD160GT

Accessories

MCCB busbar mount

Description	Order Code	Page
3P FD frame MCCB busbar mount	FD3PM	16
3P FE frame MCCB busbar mount	FE3PM	16
Busbar cover plate 3P	FBCI3	17
Cover blanking plate 1.2m	FBF6	17
Spreader box - standard	MOD8SBS	18
Modular device box 18 mod - standard	MOD8MX24S	18

"Winning combinations"

From concept to production the **Modula Plus 800** MCCB panelboard has been designed with our customers in mind.

Following consultation with engineers and electricians throughout the UK, GE has produced an MCCB panelboard which will be the benchmark for reliability, flexibility and ease of installation.

Designed in accordance with the latest standards for low voltage assemblies using a unique plug-on MCCB mounting system which enables the installer to significantly reduce the installation time of the panelboard. Coupled with a new compact 500 mm width enclosure up to 400A and generous cabling space **Modula Plus 800** is also easier to install for restricted space applications.

Incorporating GE range of Record Plus MCCB's, **Modula Plus 800** allows for a compact design for all commercial and industrial applications.

Together **Modula Plus 800** and **Record Plus** are a winning combination.

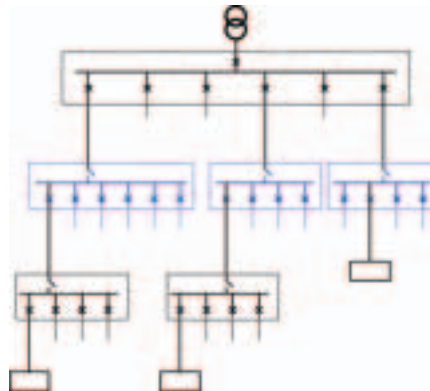
Commercial



Industrial



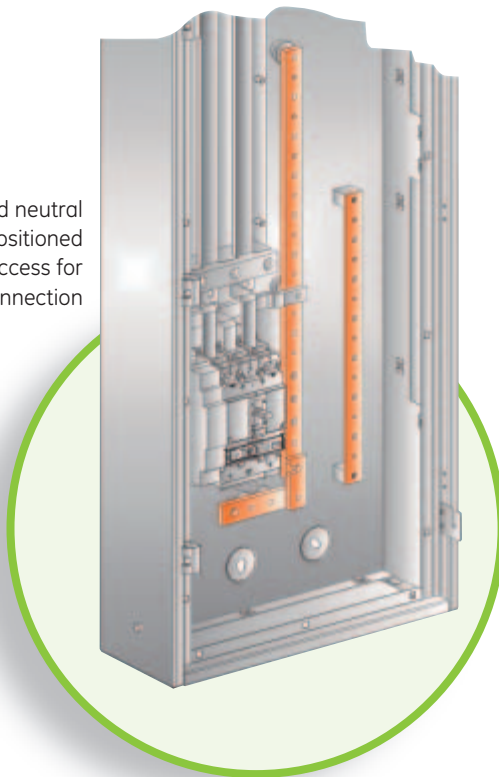
*For all
applications*



Modula Plus 800

Easy to install

Earth and neutral terminals positioned for easy access for cable connection



Easy to remove door to aid installation of the enclosure



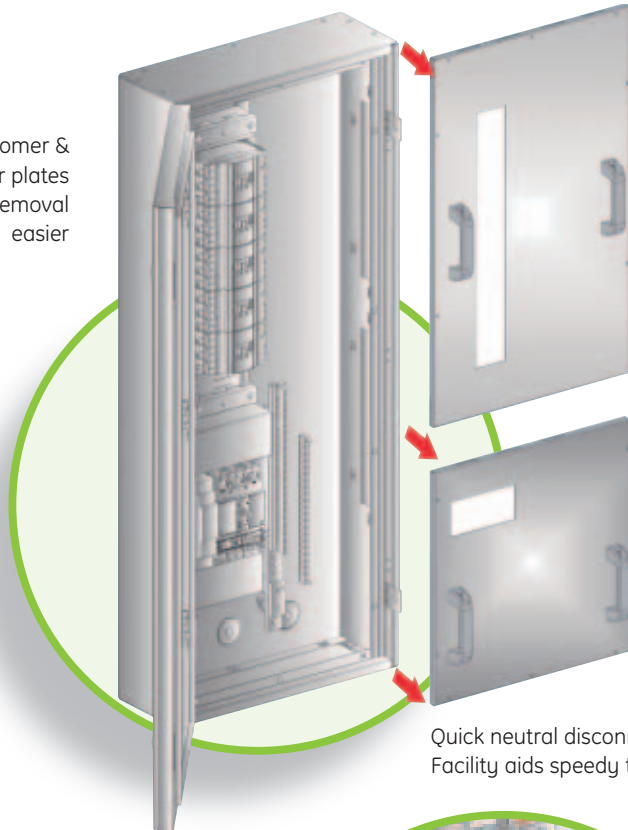
New "Compact" MCCB panelboard 500 mm wide ideal for those restricted space applications



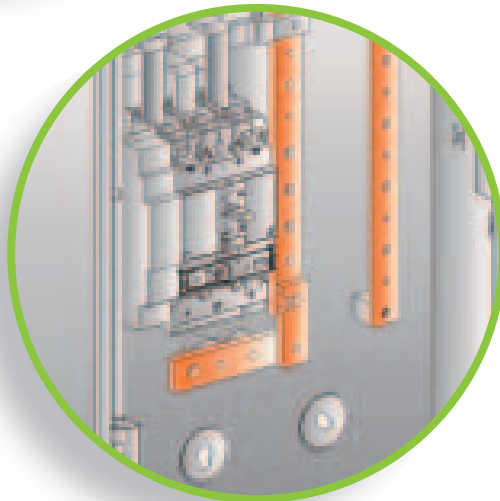
Removable top and bottom gland plates ensures making clean holes for cable glands



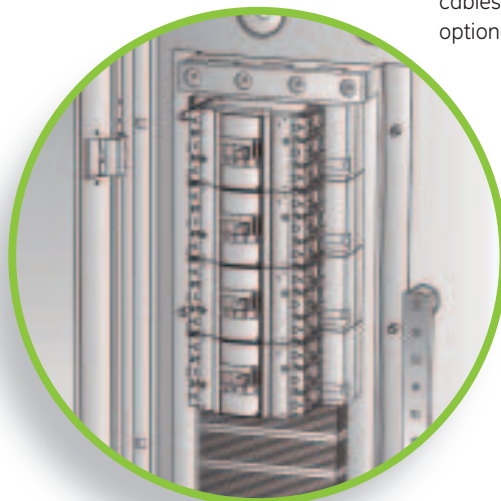
Split in-comer & outgoer cover plates makes fitting and removal easier



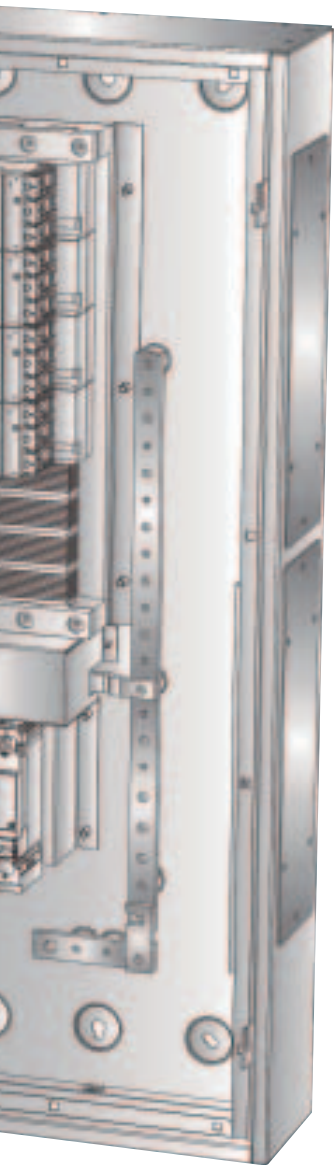
Quick neutral disconnect
Facility aids speedy testing



Flexible neutral and earth bars allows for most cables to be terminated using cable lugs or optional neutral terminals



Speedy MCCB fitting
saves on site
installation time

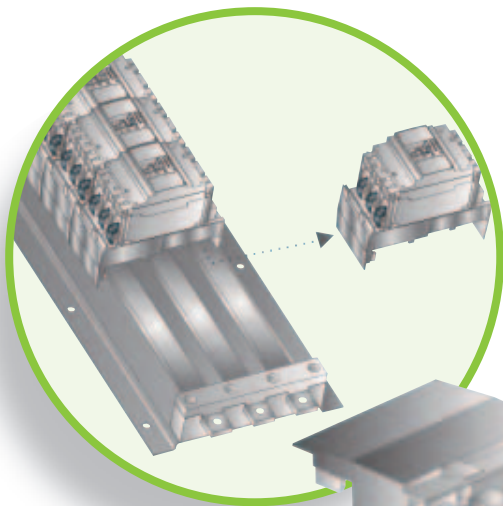


Modula Plus 800

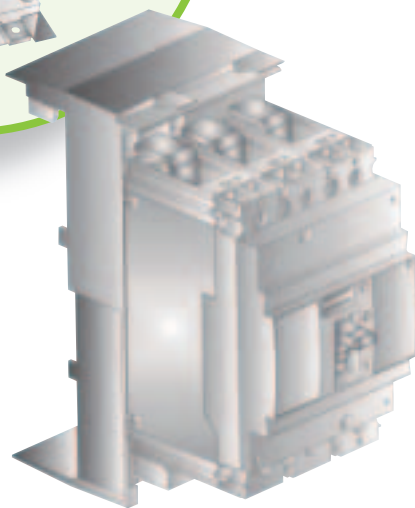
Safe and reliable

Benefits

Plug on MCCB mounting system ensures reliable installation



Manufactured in accordance with BS EN 60439-3

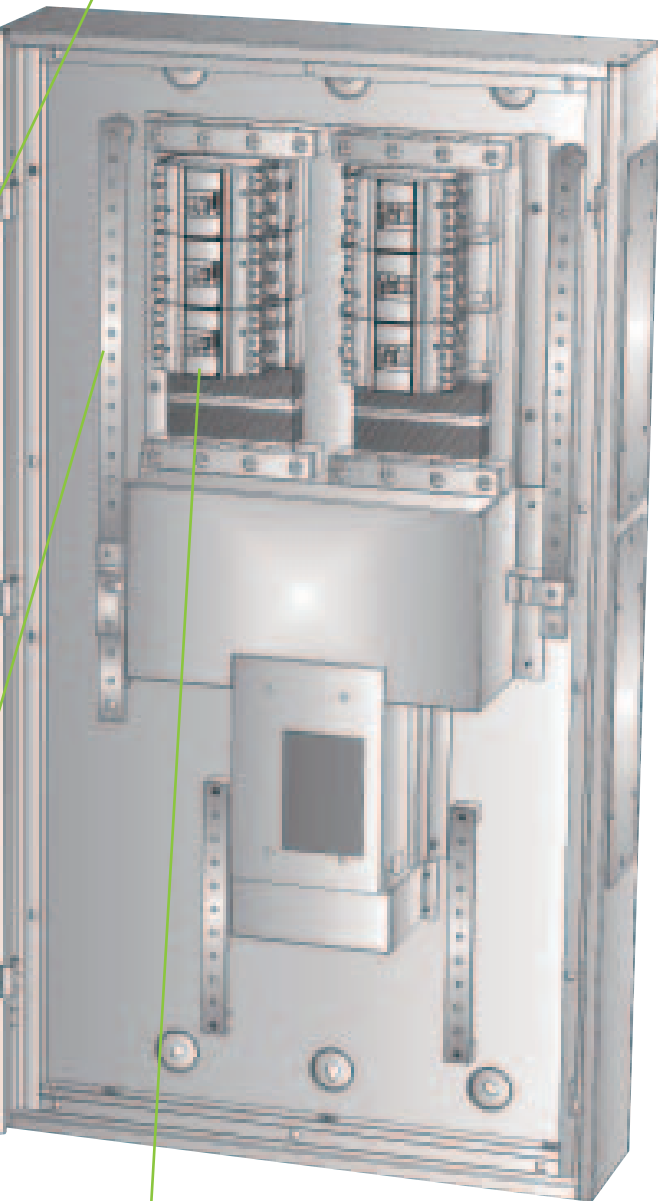


High quality durable sheet-steel construction

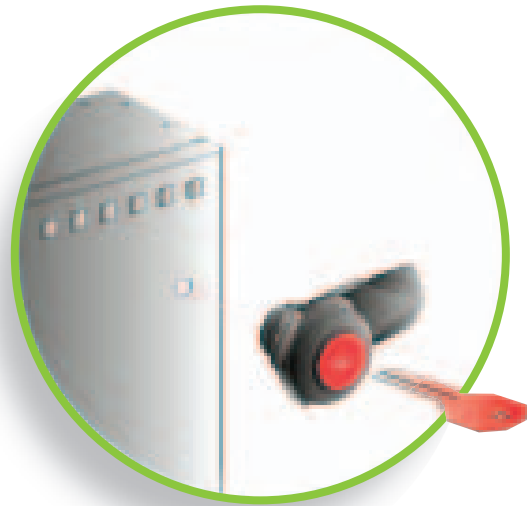


Fully shrouded incoming and outgoing connections

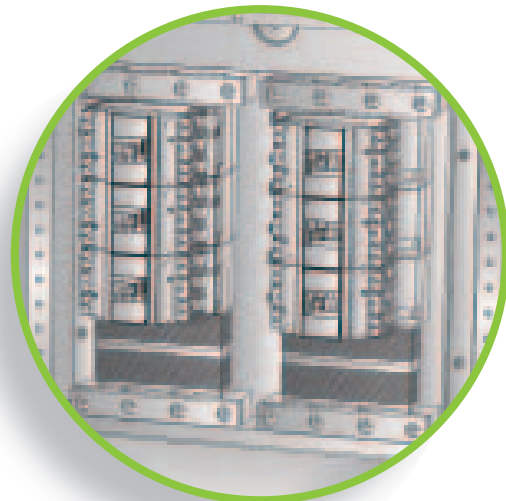
Easy to remove
door to aid installation
of the enclosure



Enhanced security
to restrict
unauthorised access
or device operation



Full shrouding of
unused outgoing ways

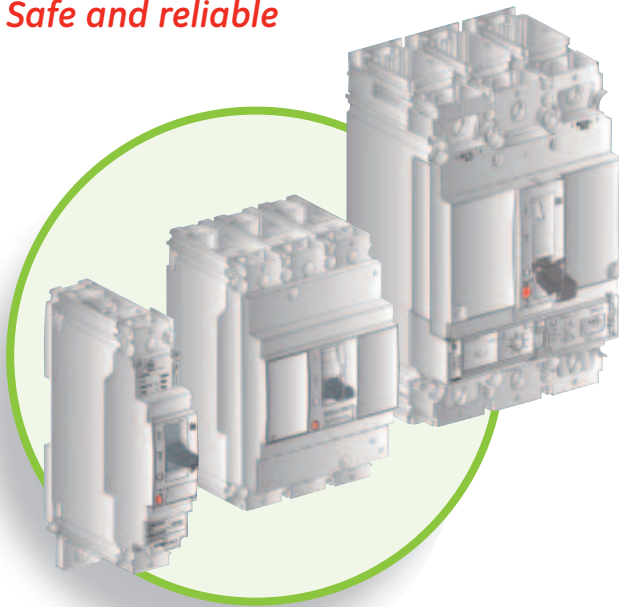


Busbar fault ratings
up to 50kA 1sec

CE marked

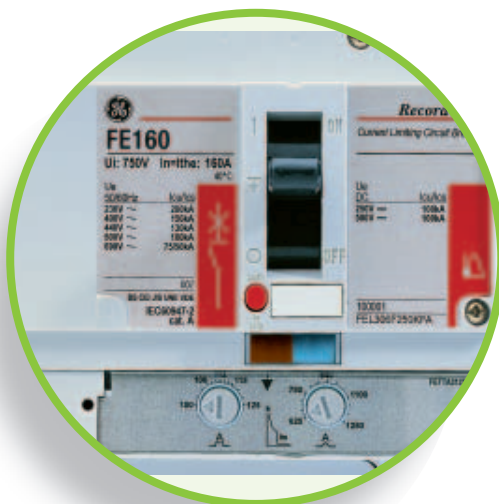
Modula Plus 800

Safe and reliable



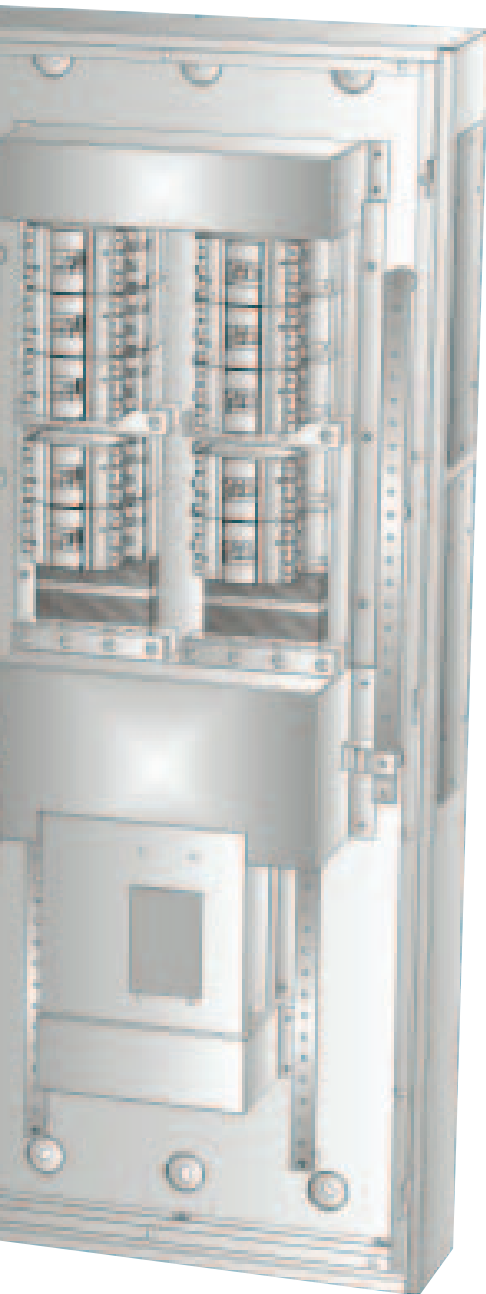
Modula Plus 800 accepts
1P MCCB's up to 160A
3P MCCB's up to 250A
in all busbar types allowing
maximum flexibility

Common easy to
fit MCCB
accessories



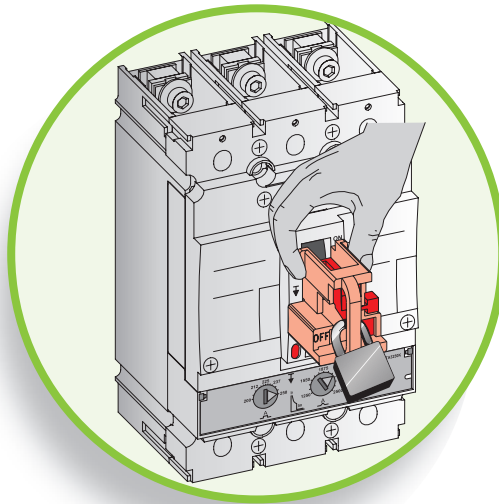
Overcurrent or short
circuit fault indication
on 3P & 4P MCCB's





90 mm tunnel terminals
available on MCCB's
up to 160A

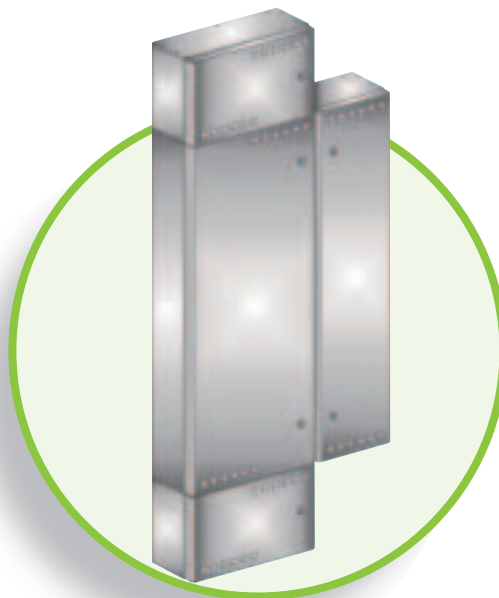
Comprehensive
range of
incoming devices



Padlockable MCCB
operating handles



Full door prevents
unauthorised tampering



Top, bottom and
side entry extension
boxes allow for easier spreading
of larger outgoing cables



MCCB Panelboard BS 5486-1 & BS EN 60439-3



Total Safety



Complete



Time Saving Features

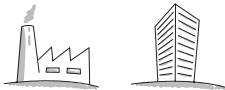


High Quality



Great Design

Applications



Approvals



Performance

Busbar rating	(A)	250, 400, 630, 800
Busbar short-circuit capacity	(kA)	35kA (250, 400A)
	(kA)	50kA (630, 800A)
Rated voltage	(V)	415
Earth bar (accepts lug)	(mm ²)	M6/M8
Neutral bar (accepts lug)	(mm ²)	M6/M8
No of TP ways		4, 6, 8, 12, 18
Max. rating outgoing MCCB		250A
Ingress protection		IP30
Enclosure colour		Light grey RAL7035
Segregation		Form 3b type 2

Features

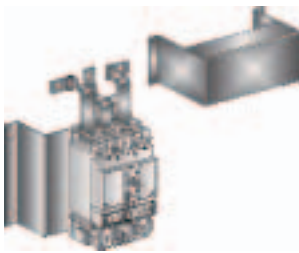
- Easy to install plug-on outgoing MCCB's
- Outgoing MCCB's up to 160A 1P and 250A 3P
- Incoming devices up to 800A
- Compact dimension only 500mm or 750mm wide
- Split incoming/outgoing cover plates for easy installation
- Split earth and neutral bars for easy cable termination
- Sturdy folded sheet steel construction
- Generous wiring room for incoming and outgoing MCCB's
- Comprehensive range of incomer options

250A panelboard incomers	●	Pg. 13
400A panelboard incomers	●	Pg. 14
630A panelboard incomers	●	Pg. 15
800A panelboard incomers	●	Pg. 15
Outgoing MCCB's	●	Pg. 16
Extension boxes - Meter packs	●	Pg. 18
Dimensions	●	Pg. 20

250A busbar system - 35kA**MCCB panelboard - Compact**

	No TP ways*	Order Code	Ref. No.		
Side incomer	3	MOD8SEPB4C	411500		
Bottom incomer	6	MOD8PB2506C	411501		
	8	MOD8PB2508C	411502		
	12	MOD8PB25012C	411503		

* Number of outgoing ways shown = when fitted with FD160 3P frame size MCCB's

Incoming devices**Non-Auto MCCB (Isolator)**

	In (A)	3 pole		4 pole	
		Order Code	Ref. No.	Order Code	Ref. No.
Side incomer	250*	FEY306D250KF*	433797*	-	-
Bottom incomer	250	MOD8ISO2503C	411518	MOD8ISO2504C	411522

*Plug-on mount order code FE3PM required

Auto MCCB (Thermal/Magnetic)

	In (A)	Order Code	Ref. No.	Order Code	Ref. No.
Side incomer	250*	FEN36TD250KF	432982*	-	-
Bottom incomer	100	MOD825MI1003C	411526	MOD825MI1004C	411535
	160	MOD825MI1603C	411527	MOD825MI1604C	411536
	200	MOD825MI2003C	411528	MOD825MI2004C	411537
	250	MOD825MI2503C	411529	MOD825MI2504C	411538

*Plug-on mount order code FE3PM required

250A Main lugs (Direct connection kit)

	In (A)	Order Code	Ref. No.		
	250	MOD8DC250C	411544		

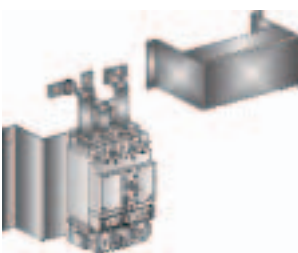
400A busbar system - 35kA

MCCB panelboard - Compact 500 mm



	No TP ways	Panelboard		Pan assembly	
		Order Code	Ref. No.	Order Code	Ref. No.
Bottom incomer	6	MOD8PB4006C	411504	MOD8PA4006C	411566
	8	MOD8PB4008C	411505	MOD8PA4008C	411567
	12	MOD8PB40012C	411506	MOD8PA40012C	411568
400A panelboards can accept up to 2 x FE frame MCCB's					

Compact incomers



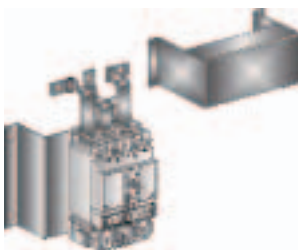
	In (A)	3 pole		4 pole	
		Order Code	Ref. No.	Order Code	Ref. No.
Isolator	400A	MOD8ISO4003C	411519	MOD8ISO4004C	411523
MCCB Thermal/Magnetic	320A	MOD840MI3203C	411530	MOD840MI3204C	411539
	400A	MOD840MI4003C	411531	MOD840MI4004C	411540
Direct connection	400A	MOD8DC400C	411545	-	-

MCCB panelboard - Standard 750 mm



	No TP ways	Panelboard		Pan assembly	
		Order Code	Ref. No.	Order Code	Ref. No.
Bottom incomer	8	MOD8PB4008S	411507	MOD8PA4008S	411569
	12	MOD8PB40012S	411508	MOD8PA40012S	411570
	18	MOD8PB40018S	411509	MOD8PA40018S	411571
400A panelboards can accept up to 2 x FE frame MCCB's one each side of busbar					

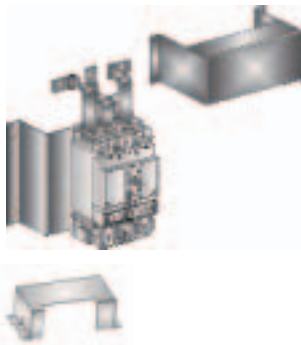
Standard incomers



	In (A)	3 pole		4 pole	
		Order Code	Ref. No.	Order Code	Ref. No.
Isolator	400A	MOD8ISO4003S	411576	MOD8ISO4004S	411577
MCCB Thermal/Magnetic	320A	MOD840MI3203S	411578	MOD840MI3204S	411580
	400A	MOD840MI4003S	411579	MOD840MI4004S	411581
Direct connection	400A	MOD8DC400S	411582	-	-

630A busbar system - 50kA**MCCB panelboard - Standard**

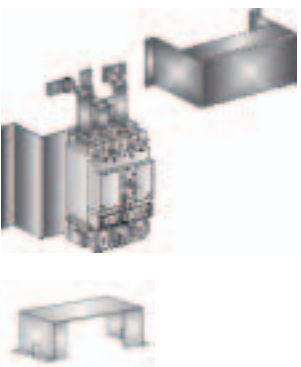
	No TP ways	Order Code	Ref. No.		
Bottom incomer	6	MOD8PB6306S	411510		
	8	MOD8PB6308S	411511		
	12	MOD8PB63012S	411512		
	18	MOD8PB63018S	411513		
630A panelboards can accept up to 2 x FE frame MCCB's one each side of busbar					

Incoming devices

Non-Auto MCCB (Isolator)					
In (A)	3 pole		4 pole		Ref. No.
	Order Code	Ref. No.	Order Code	Ref. No.	
630	MOD8ISO6303S	411520	MOD8ISO6304S	411524	
Auto MCCB (Thermal/Magnetic Ith = 0.8 -1)					
In (A)	Order Code	Ref. No.	Order Code	Ref. No.	
500	MOD863MI5003S	411532	MOD863MI5004S	411541	
630	MOD863MI6303S	411533	MOD863MI6304S	411542	
Main lugs (Direct connection kit)					
In (A)	Order Code	Ref. No.			
630	MOD8DC630S	411546	-	-	

800A busbar system - 50kA**MCCB panelboard - Standard**

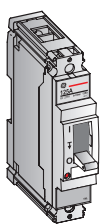
	No TP ways	Panelboard		Pan-assembly	
		Order Code	Ref. No.	Order Code	Ref. No.
Bottom incomer	6	MOD8PB8006S	411514	MOD8PA8006S	411572
	8	MOD8PB8008S	411515	MOD8PA8008S	411573
	12	MOD8PB80012S	411516	MOD8PA80012S	411574
	18	MOD8PB80018S	411517	MOD8PA80018S	411575
800A panelboards can accept up to 2 x FE frame MCCB's one each side of busbar					

Incoming devices

Non-Auto MCCB (Isolator)					
In (A)	3 pole		4 pole		Ref. No.
	Order Code	Ref. No.	Order Code	Ref. No.	
800	MOD8ISO8003C	411521	MOD8ISO8004S	411525	
Auto MCCB (Thermal/Magnetic Ith = 0.8 -1)					
In (A)	Order Code	Ref. No.	Order Code	Ref. No.	
800	MOD880MI8003C	411534	MOD880MI8004S	411543	
Main lugs (Direct connection kit)					
In (A)	Order Code	Ref. No.			
800	MOD8DC800C	411547	-	-	

Out-going MCCB's - Record Plus Series FD160

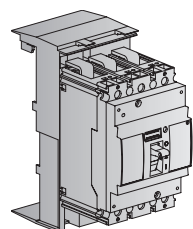
Selective Thermal Magnetic LTMD (fixed settings)



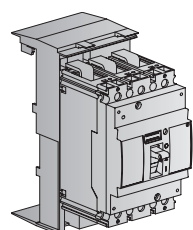
In (A)	1 pole - 25kA		1 pole plug-on mount - FD160	
	Order Code	Ref. No.	Order Code	Ref. No.
16	FDN13TF016EU	434313		410582
20	FDN13TF020EU	434320		
25	FDN13TF025EU	434321		
32	FDN13TF032EU	434322		
40	FDN13TF040EU	434324		
50	FDN13TF050EU	434326		
63	FDN13TF063EU	434327		
80	FDN13TF080GU	434328		
100	FDN13TF100GU	434330		
125	FDN13TF125GU	434332		
160	FDN13TF160GU	434334		

1 pole plug-on mount FD1PM required to fit MCCB onto panelboard busbar
1 x plug-on mount can accept 3 x 1 pole MCCB's

Selective Thermal Magnetic LTMD (Adjustable trip I_{th} = 0.8 - 1)



In (A)	3 pole - 18kA			
	Order Code	Ref. No.		
16	FDC36TE016ET	433839		410583
20	FDC36TE020ET	433844		
25	FDC36TE025ET	433849		
32	FDC36TE032ET	433855		
40	FDC36TE040ET	433857		
50	FDC36TE050ET	433859		
63	FDC36TE063ET	433861		
80	FDC36TE080GT	433886		
100	FDC36TE100GT	433896		
125	FDC36TE125GT	433897		
160	FDC36TE160GT	433905		

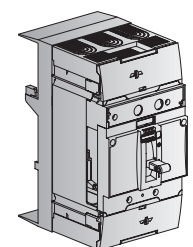


In (A)	3 pole - 36kA		Spare 3 pole plug-on mount	
	Order Code	Ref. No.	Order Code	Ref. No.
16	FDS36TD016ET	433917		410583
20	FDS36TD020ET	433999		
25	FDS36TD025ET	434208		
32	FDS36TD032ET	434211		
40	FDS36TD040ET	434214		
50	FDS36TD050ET	434217		
63	FDS36TD063ET	434220		
80	FDS36TD080GT	434267		
100	FDS36TD100GT	434269		
125	FDS36TD125GT	434271		
160	FDS36TD160GT	434273		

Note: All 3P MCCB's are now factory fitted with plug-on mounting frames

Out-going MCCB's - Record Plus Series FE250

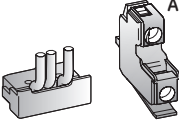
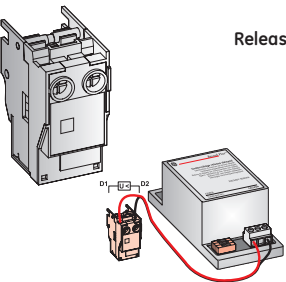
Selective Thermal Magnetic Trip LTMD (Adjustable Trip I_{th} = 0.8 - 1)



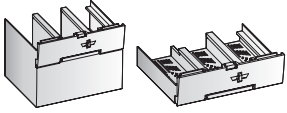
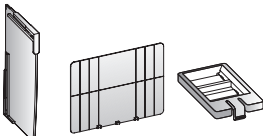
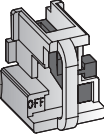
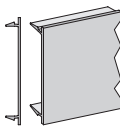
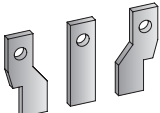
In (A)	3 pole - 36kA		Spare 3 pole plug-on mount	
	Order Code	Ref. No.	Order Code	Ref. No.
200	FEN36TD200KT	434287	FE3PM	410584
250	FEN36TD250KT	434309		

Note: All 3P MCCB's are now factory fitted with plug-on mounting frames

MCCB - Record Plus accessories**Internal accessories for FD and FE frame MCCB's**

	Function	Normally open		Normally closed		Change over	
		Order Code	Ref. No.	Order Code	Ref. No.	Order Code	Ref. No.
 Auxiliary contacts	Aux switch right mtg	FAS10R	430837	FAS01R	430831	FEN46TD125KF	433070
	Aux switch left mtg	FAS10L	430834	FAS01L	430828	FEN46TD160KF	433076
	Bell alarm trip unit	FABAT10	430818	FABAT01	430815	FEN46TD200KF	433079
	-	-	-	-	-	FEN46TD250KF	433082
 Releases							

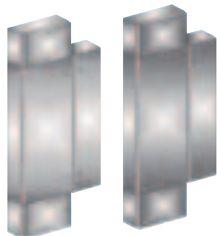
Installation accessories for FD and FE frame MCCB's

	Function	FD frame MCCB		FE frame MCCB			
		Order Code	Ref. No.	Order Code	Ref. No.		
 Terminal shields	Long, 3 pole, set of 2	FDJL3	430951	FEJL3	432079		
	Long, 4 pole, set of 2	-	-	FEJL4	432082		
	Short, 3 pole, set of 2	FDJS3	430960	FEJS3	432088		
	Short, 4 pole, set of 2	-	-	FEJS4	432091		
 Phase barriers	Phase barriers set of 12	FDJP	430957	-	-		
	Back plate set of 2	FDJB	430945	FEJP	432085		
	Finger protection set of 12	FDJK	430069	FEJB	432073		
 Padlock bracket	Removable bracket	PD1PR	430879	PD1PR	430879		
 Cover blank plates	Cover blanking plate 1m	FBF6	883960	FBF6	883960		
	Busbar cover plates	FBCI3	433377	FBCI3	433377		
 Connection options							

2 x FBCI3 required to cover space for FD frame MCCB & 3 x FBCI3 required to cover space for FE frame MCCB

MCCB panelboard boxes

Extension boxes
300 mm high
250 mm wide



**Modular
devices boxes**

Compact				Standard			
Function	Order Code	Ref. No.	Panelboard type	Function	Order Code	Ref. No.	Panelboard type
Top/bottom mounted	MOD8SBC	411552		Top/bottom mounted	MOD8SBS	411553	
Side mounted chamber 704mm	MOD8SX704	411556	MOD8SEP84C	Side mounted chamber 1354mm	MOD8SXS1354	411561	MOD8PB4008S MOD8PB6306S
Side mounted chamber 1215mm	MOD8SXC1215	411557	MOD8PB2506C	Side mounted chamber 1516mm	MOD8SXS1516	411562	MOD8PB40012S MOD8PB6308S
Side mounted chamber 1441mm	MOD8SXC1441	411558	MOD8PB2508C MOD8PB4006C	Side mounted chamber 1635mm	MOD8SXS1635A	411563	MOD8PB8008S
Side mounted chamber 1724mm	MOD8SXC1724A	411559	MOD8PB25012C	Side mounted chamber 1635mm	MOD8SXS1635B	411583	MOD8PB63012S
Side mounted chamber 1724mm	MOD8SXC1724B	411590	MOD8PB4008C	Side mounted chamber 1635mm	MOD8SXS1635C	411584	MOD8PB8006S
Side mounted chamber 1875mm	MOD8SXC1875	411560	MOD8PB40012C	Side mounted chamber 1880mm	MOD8SXS1880	411564	MOD8PB80012S
				Side mounted chamber 1880mm	MOD8SXS1880A	411585	MOD8PB40018S
				Side mounted chamber 1880mm	MOD8SXS1880B	411589	MOD8PB63018S
				Side mounted chamber 2129mm	MOD8SXS2129	411565	MOD8PB80018S
Top/bottom mounted 18 module	MOD8MX18C	411554		Top/bottom mounted 24 module	MOD8MX24S	411555	

MCCB panelboard meter packs



Meter packs

Compact			Standard		
Function	Order Code	Ref. No.	Function	Order Code	Ref. No.
250A compact width	MOD8MP250C	411548	-		
400A compact width	MOD8MP400C	411549	400A standard width	MOD8MP400S	411586
-	-	-	630A standard width	MOD8MP630S	411550
-	-	-	800A standard width	MOD8MP800S	411551

NOTE: Analogue meter packs comprise pre-wired ammeter, voltmeter and selector switches with loose current transformers. For digital meter options please contact the sales office.

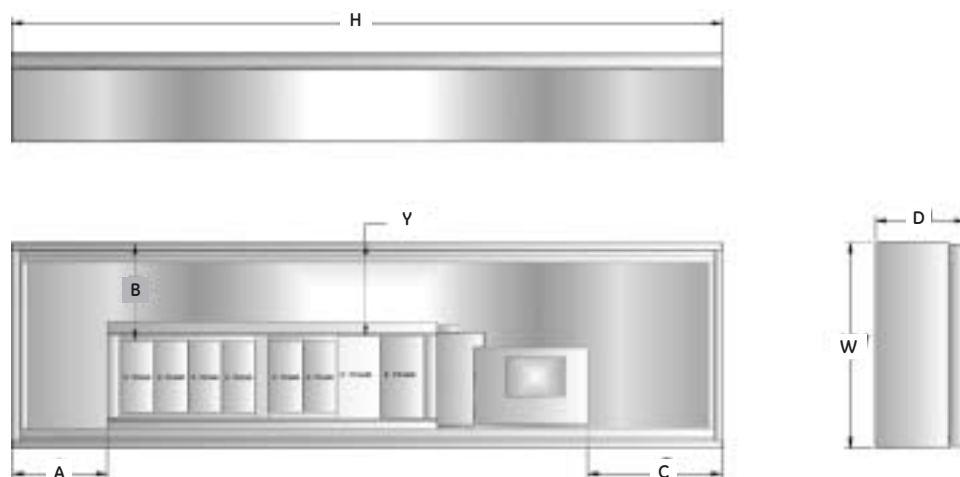
Neutral & Earth tunnel terminals

Tunnel terminals	50 mm 3 way	MOD8NE3	411587		
	50 mm 7 way	MOD8NE7	411588		

Modula Plus 800

Dimensional drawings

Compact - 250/400A MCCB panelboard

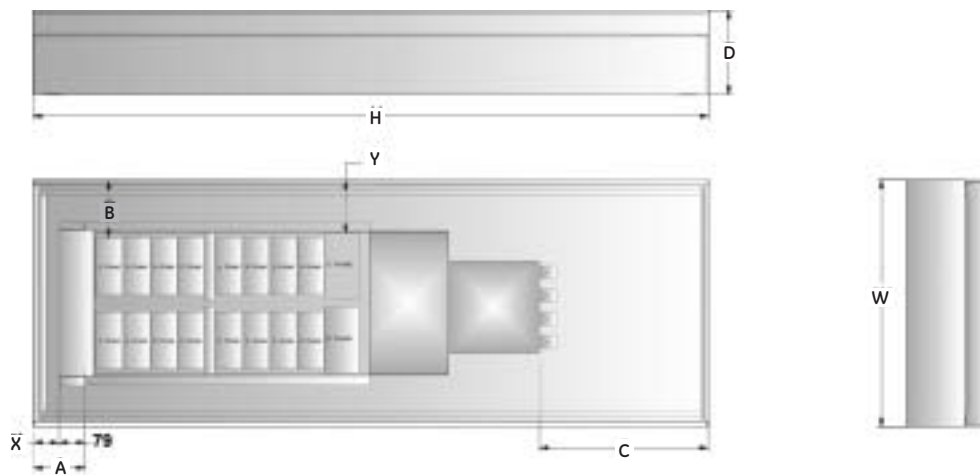


BUSBAR (Amps)	ENTRY	DIMENSIONS (mm)				CABLE SPACE (mm)			
		TP WAYS	HEIGHT (H)	WIDTH (W)	DEPTH (D)	Topside (A)	Outgoing D Frame (B)	Incoming (C)	Outgoing E Frame (Y)
250	SIDE	3	794	999	218	139	279.1	-	-
	BOTTOM	6	1215	999	218	117.5	279.1	275	-
	BOTTOM	8	1441	999	218	146.5	279.1	275	-
	BOTTOM	12	1724	999	218	181.5	279.1	275	-
400	BOTTOM	6	1441	999	218	144	298.8	325	231.1
	BOTTOM	8	1724	999	218	239	298.8	325	231.1
	BOTTOM	12	1875	999	218	181	299.8	325	-

Terminal capacities

Function	Type/rating	Tunnel (mm ²)	Lug		Max fault level (kA)
			Ø	W (mm)	
Panelboard	Earth	50	M6/M8	-	-
	Neutral	50	M6/M8	-	-
Outgoing MCCB	160A	95	-	-	30
	250A	-	9.5	25	50
Incoming MCCB's	250A	-	M8	25	50
	400A	-	M10	32	50
	630A	-	M12	40	50
	800A	-	M13	50	50
Tunnel terminals supplied as an option					

Standard - 400/630/800A MCCB panelboard



BUSBAR (Amps)	ENTRY	DIMENSIONS (mm)				CABLE SPACE (mm)				
		TP WAYS	HEIGHT (H)	WIDTH (W)	DEPTH (D)	Topside (A)	Outgoing D Frame (B)	Incoming (C)	Outgoing E Frame (Y)	X=A-79
400	Bottom	8	1354	750	255	117.55	195.9	346	168.4	-
	Bottom	12	1516	750	255	196.55	195.9	346	-	-
	Bottom	18	1880	750	255	224.55	195.9	346	-	-
630	Bottom	8	1354	750	255	197.55	195.9	324	168.4	118.55
	Bottom	8	1516	750	255	301.55	195.9	324	168.4	231.55
	Bottom	12	1635	750	255	223.55	195.9	324	168.4	144.55
	Bottom	18	1880	750	255	246.55	195.9	324	-	167.55
800	Bottom	6	1635	750	255	252	195.9	508	168.4	173
	Bottom	8	1635	750	255	170	195.9	508	168.4	91
	Bottom	12	1880	750	255	342	195.9	508	168.4	163
	Bottom	18	2129	750	255	345	195.9	508	168.4	166

Record Plus™ circuit breakers are designed to isolate and switch low voltage distribution circuits and to protect the conductors, equipment and devices included in these circuits.

The FD frame size is designed to use electro-mechanical trip units. These are typical thermal magnetic devices which offer an overload (thermal) and short-circuit protection (magnetic).

The breaker can also be equipped with a Mag Break™ magnetic-only trip unit that offers short-circuit protection.

The trip units have been designed with the user in mind. The trip unit ratings are always indicated in amperes. To prevent unauthorized manipulation of the breaker settings each trip unit comes with a transparent, tamper-free (sealable) cover. All units come as 3 and 4 pole devices (2p on request) and are available in a number of application-defined subvariants.

The trip unit is an integrated part of the breaker and is not interchangeable. The following versions are available:

LTM (Line thermal magnetic protection)

For the Effective breaker type only.

Has a thermal setting of 0.8 to 1 times and a magnetic release set at 10 x the selected rating.

Designed for the protection of generic loads.

LTMD (Selective line thermal magnetic)

Available in the FD160S, N, H and L breaker types.

A trip unit offering selectivity with downstream devices as the ElfaPlus MCBs and Surion motor starter. Has a thermal setting of 0.8 to 1 times, and a magnetic release set at 10 x the selected rating.

Designed for the selective protection of generic loads.

GTM (Generator thermal magnetic)

Available in the FD160N and H breaker types

Suitable for generator protection and/or long cable runs where a low magnetic threshold is required.

Has a thermal setting of 0.8 to 1 times, and a magnetic release set at 4 or 5 times the selected rating.

Mag Break™ (Magnetic only)

Available in the FD160N, H and L breaker types.

A trip unit designed to offer short-circuit protection only and specifically suited for motor protection in coordination with a contactor and a thermal relay (EN 60947-4).

Has a settable magnetic threshold of 10 to 15 x In.

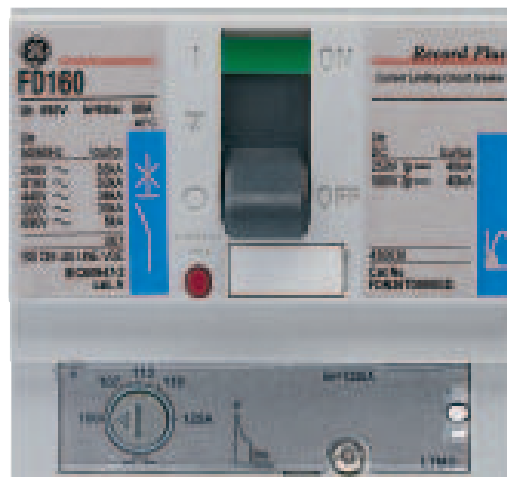
Y (Non automatic - switch disconnect)

A device available in a 63A and 160A variant.

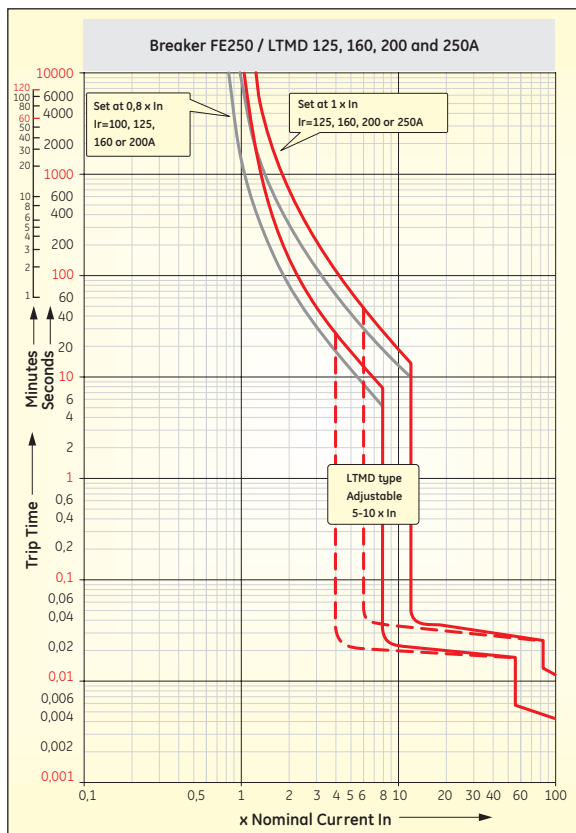
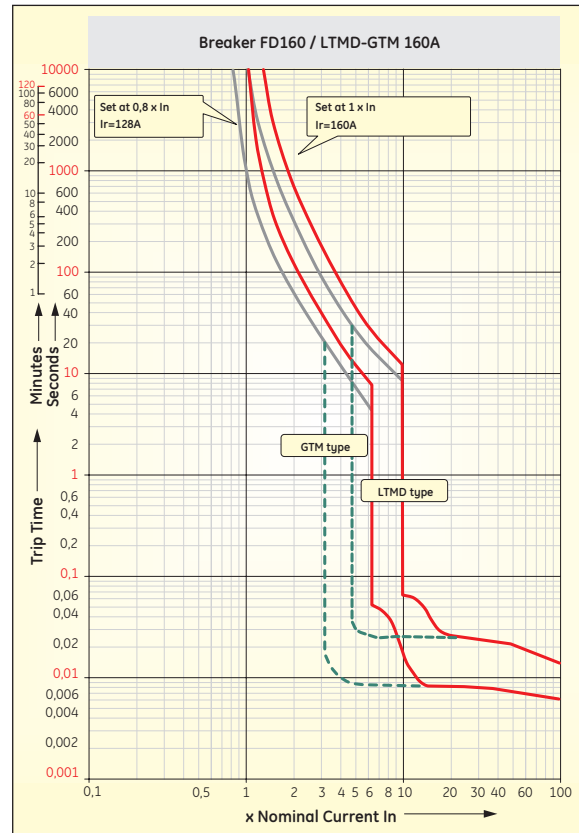
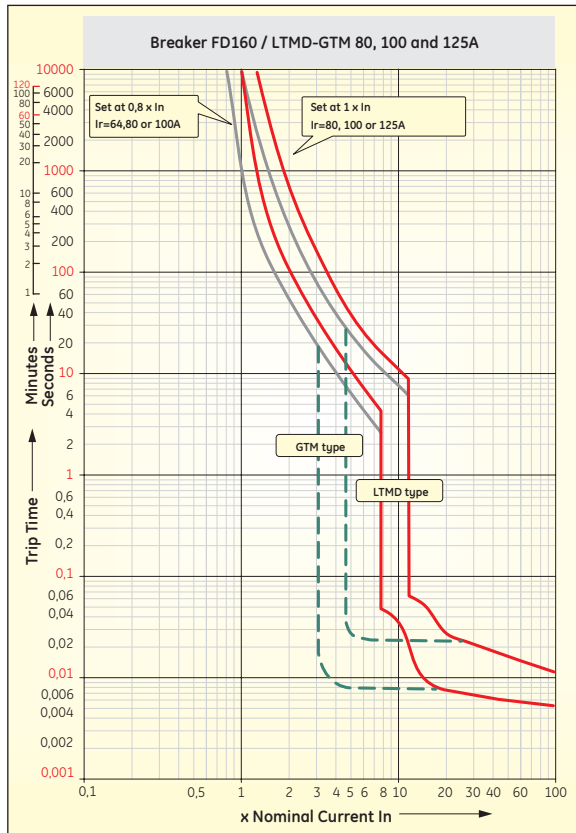
Has no protection elements.

Designed as switch disconnect

Contact sales office for availability



Time Current Curves



Selectivity

Downstream	ElfaPlus MCB with C curve	Upstream Record Plus™ Type														
		FD160E In (A)							FD160S In (A)							
		In (A)	40	50	63	80	100	125	160	40	50	63	80	100	125	160
		Selectivity limit in kA														
EP60	≤16	0.6	2.5	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	0.6	0.8	2.5	T	T	T	T	T	3.5	T	T	T	T	T	T
	25	-	0.8	1	T	T	T	T	T	1.6	3.5	T	T	T	T	T
	32	-	-	1	3	T	T	T	T	-	-	T	T	T	T	T
	40	-	-	-	1.2	4	T	T	T	-	-	-	T	T	T	T
	50	-	-	-	1.2	1.5	T	T	T	-	-	-	3.5	T	T	T
	63	-	-	-	-	1.5	2	T	T	-	-	-	-	T	T	T
EP100	≤16	0.6	2.5	6	6	T	T	T	T	T	T	T	T	T	T	T
	20	0.6	0.8	2.5	6	8	T	T	T	3.5	T	T	T	T	T	T
	25	-	0.8	1	6	6	T	T	T	1.6	3.5	T	T	T	T	T
	32	-	-	1	3	6	8	T	T	-	-	6	6	T	T	T
	40	-	-	-	1.2	4	6	8	-	-	-	6	T	T	T	T
	50	-	-	-	1.2	1.5	6	6	-	-	-	3.5	8	T	T	T
	63	-	-	-	-	1.5	2	6	-	-	-	-	8	T	T	T
EP250	≤16	0.6	2.5	6	6	10	T	T	T	10	10	T	T	T	T	T
	20	0.6	0.8	2.5	6	8	T	T	T	3.5	10	T	T	T	T	T
	25	-	0.8	1	6	6	10	T	T	1.6	3.5	15	15	T	T	T
	32	-	-	1	3	6	8	10	-	-	6	6	10	T	T	T
	40	-	-	-	1.2	4	6	8	-	-	-	6	10	T	T	T
	50	-	-	-	1.2	1.5	6	6	-	-	-	3.5	8	10	T	T
	63	-	-	-	-	1.5	2	6	-	-	-	-	8	10	T	T
		FD160N In (A)							FD160H&L In (A)							
EP60	≤16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	3.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	25	1.6	3.5	T	T	T	T	T	T	3.5	T	T	T	T	T	T
	32	-	2.5	T	T	T	T	T	T	2.5	T	T	T	T	T	T
	40	-	-	T	T	T	T	T	T	-	T	T	T	T	T	T
	50	-	-	-	3.5	T	T	T	T	-	-	3.5	T	T	T	T
	63	-	-	-	-	T	T	T	T	-	-	-	T	T	T	T
EP100	≤16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	3.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	25	1.6	3.5	T	T	T	T	T	T	3.5	T	T	T	T	T	T
	32	-	2.5	T	T	T	T	T	T	2.5	T	T	T	T	T	T
	40	-	-	T	T	T	T	T	T	-	T	T	T	T	T	T
	50	-	-	-	3.5	T	T	T	T	-	-	3.5	T	T	T	T
	63	-	-	-	-	8	T	T	T	-	-	-	8	T	T	T
EP250	≤16	10	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	20	3.5	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	25	1.6	3.5	15	15	T	T	T	T	3.5	15	15	T	T	T	T
	32	-	-	10	10	T	T	T	T	-	10	10	T	T	T	T
	40	-	-	10	10	15	T	T	T	-	10	10	15	T	T	T
	50	-	-	-	3.5	10	T	T	T	-	-	3.5	10	T	T	T
	63	-	-	-	-	8	T	T	T	-	-	-	8	T	T	T

* T = Total: selective until the Icu of the downstream device OR the Icu of the upstream device

Selectivity

Downstream	In (A)	Upstream Record Plus™ Type FE160N, H or L											
		Trip unit LTM In (A)					Trip unit LTMD In (A)			Trip unit SMR1 In (A)			
		63	80	100	125	160	100	125	160	63	125	160	
ElfaPlus MCB with C curve	In (A)	Selectivity limit in kA											
EP60	≤16	T	T	T	T	T	T	T	T	T	T	T	
	20	2.5	T	T	T	T	T	T	T	T	T	T	
	25	1	T	T	T	T	T	T	T	T	T	T	
	32	1	3	T	T	T	T	T	T	T	T	T	
	40	-	1.2	4	T	T	T	T	T	T	T	T	
	50	-	1.2	1.5	T	T	T	T	T	-	T	T	
EP100	63	-	-	1.5	2	T	-	T	T	-	T	T	
	≤16	6	6	T	T	T	T	T	T	T	T	T	
	20	2.5	6	8	T	T	T	T	T	T	T	T	
	25	1	6	6	T	T	T	T	T	T	T	T	
	32	1	3	6	8	T	T	T	T	T	T	T	
	40	-	1.2	4	6	8	T	T	T	T	T	T	
EP250	50	-	1.2	1.5	6	6	T	T	T	-	T	T	
	63	-	-	1.5	2	6	-	T	T	-	T	T	
	≤16	6	6	10	T	T	T	T	T	T	T	T	
	20	2.5	6	8	T	T	T	T	T	T	T	T	
	25	1	6	6	10	T	T	T	T	T	T	T	
	32	1	3	6	8	10	T	T	T	T	T	T	
Record Plus	40	-	1.2	4	6	8	T	T	T	T	T	T	
	50	-	1.2	1.5	6	6	T	T	T	-	T	T	
	63	-	-	1.5	2	6	-	T	T	-	T	T	
	≤25	0.6	0.8	1	1.3	1.6	42	42	42	50	50	50	
	FD160E-FD160S	32	0.6	0.8	1	1.3	1.6	42	42	42	50	50	50
	FD160N-FD160H	40	-	0.8	1	1.3	1.6	42	42	42	-	50	50
FD160L	50	-	0.8	1	1.3	1.6	42	42	42	-	50	50	
	63	-	-	1	1.3	1.6	-	42	42	-	50	50	
	80	-	-	-	1.3	1.6	-	-	42	-	-	50	
	100	-	-	-	-	1.6	-	-	42	-	-	50	

* T = Total: selective until the Icu of the downstream device OR the Icu of the upstream device

Selectivity

Downstream	In (A)	Upstream <i>Record Plus</i> ™ Type FE250N, H or L										
		Trip unit LTM In (A)				Trip unit LTMD In (A)				Trip unit SMR1 In in A		
		125	160	200	250	125	160	200	250	125	160	250
ElfaPlus MCB with C curve	In (A)	125	160	200	250	125	160	200	250	125	160	250
		Selectivity limit in kA										
EP60	≤40	T	T	T	T	T	T	T	T	T	T	T
EP100	50	10	10	T	T	T	T	T	T	T	T	T
EP250	63	2	8	10	T	T	T	10	T	T	T	T
Record Plus	≤63	2.5	3.2	4.0	T	42	42	4.0	42	50	50	50
FD160E, S N, H & L	80	1.2	2.4	3.0	5.0	1.5	42	3.0	42	1.8	50	50
FE160N-LTM	100	-	1.6	2.0	3.5	-	42	2.0	42	-	50	50
FE160H-LTM	125	-	-	2.0	2.5	-	2	2.0	42	-	2.2	50
FE160L-LTM	160	-	-	-	2.5	-	-	-	3	-	-	3.5

* T = Total: selective until the Icu of the downstream device OR the Icu of the upstream device

GE Consumer & Industrial Power Protection

38230

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