



Moulded Case Circuit Breakers

Record Plus

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Selective and Current Limiting

A complete line



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A complete line up to 1600 A

- ❑ **FD125**
Circuit Breaker
3 and 4 pole
16 - 125A



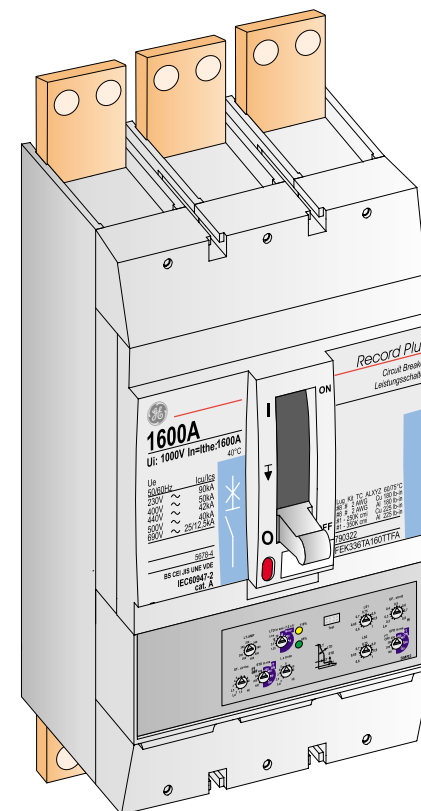
- ❑ **FE160 & FE250**
Circuit Breaker
3 and 4 pole
25 - 250A



- ❑ **FG400 & FG630**
Circuit Breaker
3 and 4 pole
160 - 630A



- ❑ **FK800..FK1600**
Circuit Breaker
3 and 4 pole
400 - 1600A

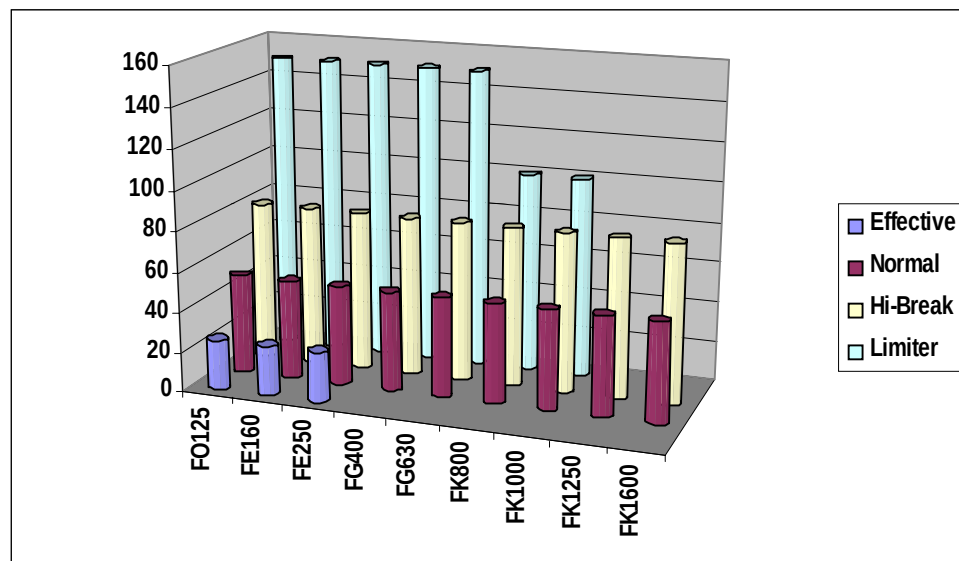


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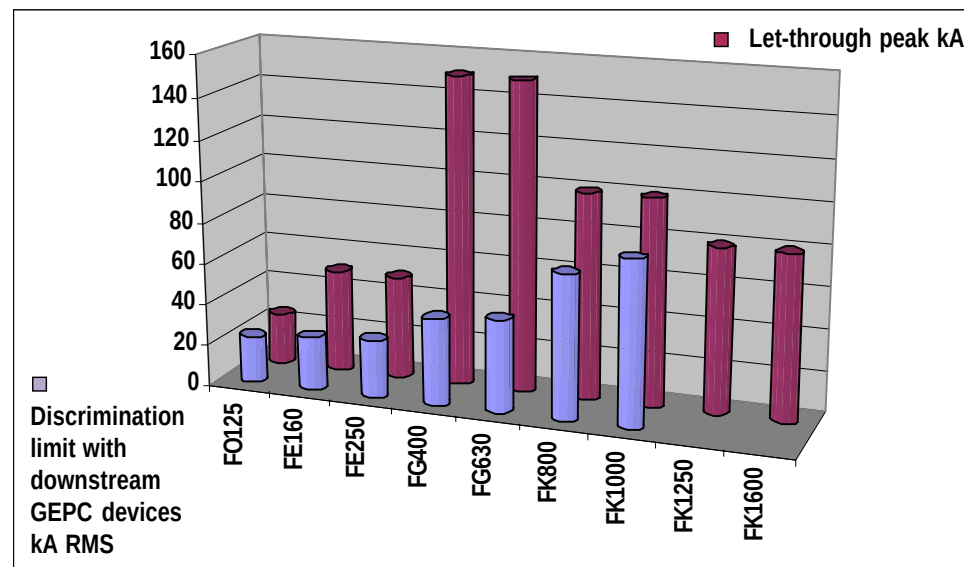
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Performance at 400VAC

$I_{cu} = I_{cs}$ in kA



Coordination



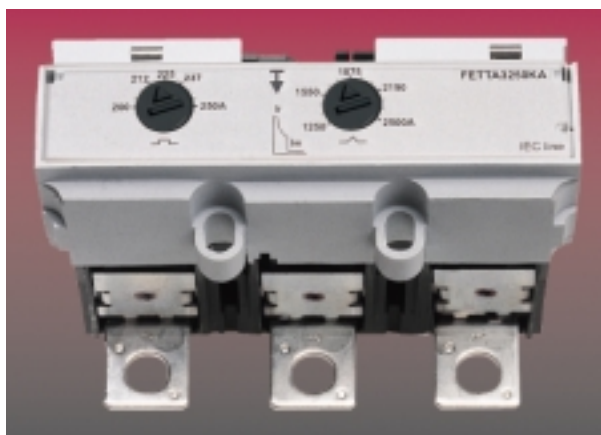
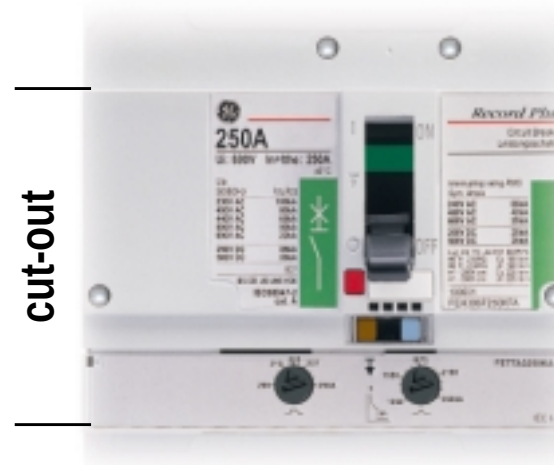
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Flexible & Interchangeable trip units

Electromechanical ... Interchangeable

- ❑ FLAGS Discriminating between Overload Short Circuit
- ❑ Thermal or LT setting always on LEFT
- ❑ Magnetic setting or ST always on RIGHT
- ❑ Large settings knobs indicating ABSOLUTE values
- ❑ Trip unit behind a transparant tamper-resistant cover
- ❑ Trip unit & breaker face combined in dedicated cut out area
- ❑ Absolute settings, customer preference
- ❑ Simplicity, ease of use



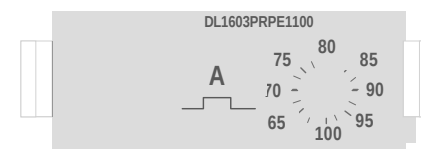
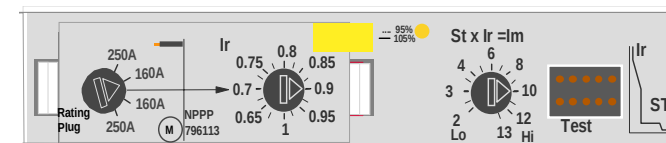
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Moulded Case Circuit Breakers

Flexible & Interchangeable trip units

- ❑ Design has a curve designed to match inrush characteristics and has filters for spikes
- ❑ The SMR1 ... designed to be selective ... Class B selectivity is possible
- ❑ Trip unit offers a local and external LT pre-alarm signal
- ❑ Ratings indicated through colour codes
- ❑ Rating plug ... wide setting range 0.4 to 1 x sensor rating and a Flexible Function choice
- ❑ Test jack...Current Injection / Battery test

Electronic ... Interchangeable



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High performance in small size

150kA at 400VAC - 75kA at 690VAC

- ❑ FD size : 130 x 81 mm
150kA at 400VAC Icu = Ics
- ❑ FE size : 170 x 105 mm
150kA at 400VAC Icu = Ics
75kA at 690VAC
- ❑ FG size : 270 x 140 mm
150kA at 400VAC Icu = Ics
75kA at 690VAC



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FD & FE size main features

- ❑ 125A & 150kA in the size of an 125A MCB
- ❑ 250A & 150kA in the size of an 160A MCCB - 3 and 4 pole
- ❑ Fully selective with MCB's & each other
- ❑ Offer backup protection with MCB's
- ❑ Electronic or thermal magnetic trip units for line and motors



FG size main features

- ❑ 630A & 150kA fully electronic - 3 and 4 pole
- ❑ Fully selective with MCB's and the FD and FE sizes
- ❑ Offer backup protection with the FD and FE sizes
- ❑ Electronic SMR1 or SMR2 trip units for standard line and motor protection



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High performance auxiliary contacts and UV / SHT releases

Auxiliaries : main technical details

- AS/CA
Auxiliary contact blocks
up to 10A 600VAC rating



- SHT - Shunt trip
12V to 480V AC/DC rated
Low consumption
Kiss free
Suited for continuous
operation



- BAT/CD and BAM/CD
Bell alarm contact blocks
up to 10A 600VAC rating



- UVR - Undervoltage release
24V to 415V AC/DC rated
Low consumption
Kiss free
Lock-out function



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External auxiliaries

- ❑ Motor operator
Fast and long lasting



- ❑ Direct rotary handle
Three clear positions :
ON - TRIPPED - OFF



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External auxiliaries

- ❑ Rotary handle through door or panel
 - 2 depths
 - available in grey or red / yellow
- ❑ Rotary handle through door or panel
 - can be turned 90° to allow for horizontal breaker mounting



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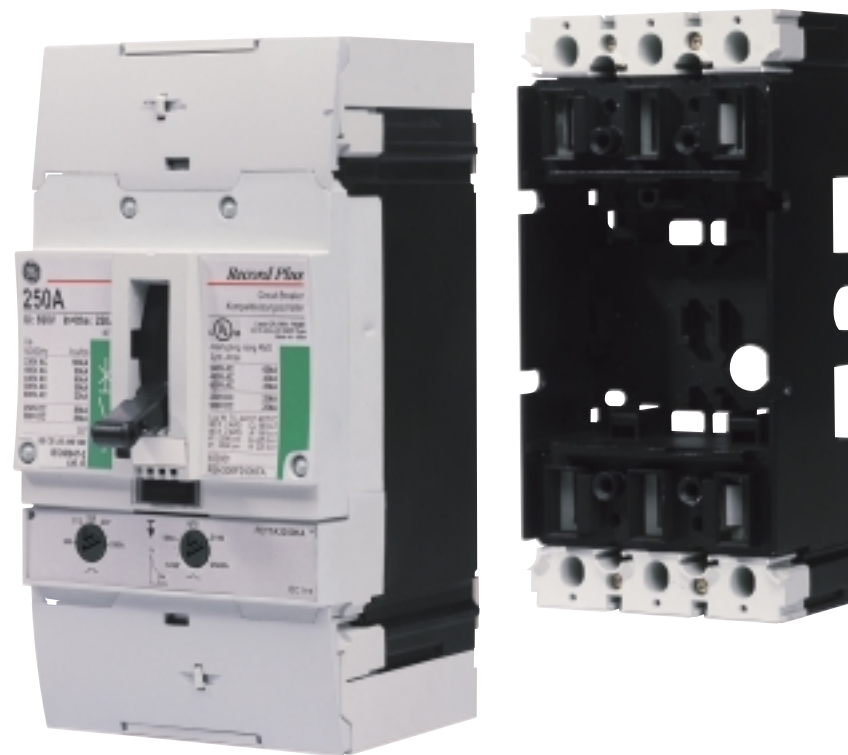
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External auxiliaries

- ❑ Draw-out system
 - with separate operating panel
 - three positions :
IN - OUT - TEST



- ❑ Plug-in system IP40

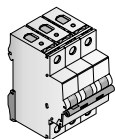


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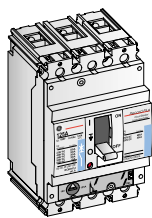
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Full coordination

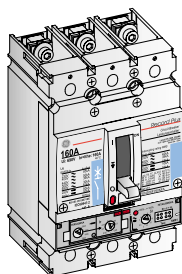
A complete solution from 1 to 6300A



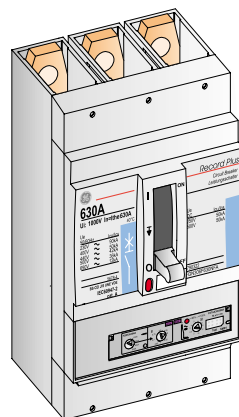
Elfa Plus



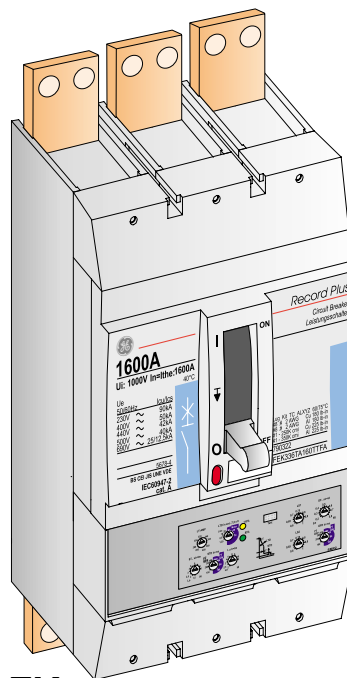
FD



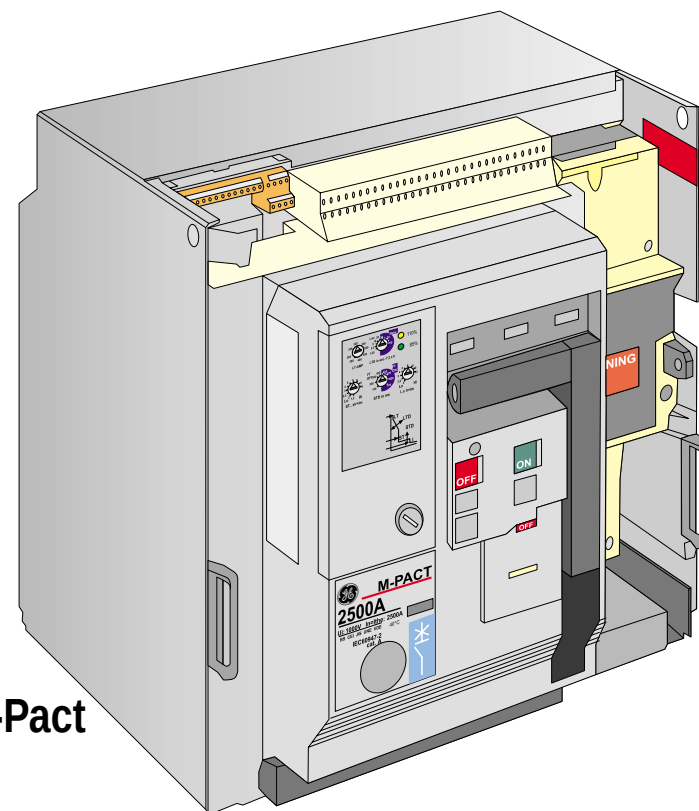
FE



FG



FK



M-Pact

