



	FEATURES	DEVICE	FM2	735/737	MIFII	F35	750/760	F650	F60
PROTECTION	Disturbance Detector								
	Synchronism Check or Synchronizing	25							
	Undervoltage, Phase/Auxiliary	27 P/A				P/A	P/A	P/A	P/A
	Directional Power	32							
	IOC, Negative Sequence	46/50	■				■	■	■
	TOC, Negative Sequence	46/51					■	■	■
	Current Directional, Negative Sequence	46/67					■	■	■
	Reverse Phase Sequence Voltage	47				Logic	■	■	■
	Thermal Image	49	■				■	■	■
	Breaker Failure	50BF			■	Logic	■	■	■
	IOC, Phase/Neutral/Ground	50 P/N/G	G/N	P/N/G	P/N/G	P/N/G	P/N/G	P/N/G	P/N/G
	IOC, Sensitive Ground	50SG			■	■	■	■	■
	High Impedance Fault Detection								
	Load Encroachment Logic								
	TOC, Phase/Neutral/Ground	51 P/N/G	P	P/N/G	P/N/G	P/N/G	P/N/G	P/N/G	P/N/G
	TOC, Sensitive Ground	51SG			■	■	■	■	■
	TOC, Voltage Restrained	51V				■	■	■	■
	Power Factor	55					■	■	■
	Overvoltage, Phase/Auxiliary/Neutral	59P/A/N				A/N	P/N	P/N/G	P/A/N
	Overvoltage, Symmetrical Component	59_2							
	Current Directional, Phase/Neutral/Ground	67 P/N/G					P/N/G	P/N/G	P/N
	Current Directional - External	67							
	AC Reclosing (Shots)	79			4	4	4	4	4
	Underfrequency	81U				■	■	■	■
	Overfrequency	81O					■	■	■
	Lockout Protection	86		■			■	■	■
	Broken Conductor Detection	HIZ						■	■
	Programmable Elements					■			
Voltage Transformer Fuse Failure	VTFF					■	■	■	
FlexElements™						■	■	■	
CONTROL	Contact Inputs		16		2	Up to 80	14	Up to 32	Up to 80
	Contact Outputs		6	19	5	Up to 64	8	Up to 16	Up to 64
	User-Programmable Push Buttons					■			
	Virtual Inputs/Outputs					Up to 32/64	20	Up to 32/512	Up to 32/64
	Graphical Display							Optional	
	Trip/Close Coil Supervision					■	■	■	■
	Multiple Disconnect Switches Control								
	Breaker Control		■		■	■		■	■
	Programmable Logic						Limited		
	User-Programmable LEDs								
	Timers		■		■	■	■	■	■
	Digital Counters					■	■	■	■
	Digital Elements								
	Direct Inputs/Outputs								
	Selector Switch								
	IRIG-B Input						■	■	■
	Cold Load Pickup				■			■	■
	Analog Inputs					Up to 24	1		Up to 24
Analog Outputs					Up to 4	8		Up to 4	
RTD Inputs					Up to 24			Up to 24	
Power Factor									
Automatic Transfer Scheme							FlexLogic	FlexLogic	
Undervoltage Restoration		■					FlexLogic	FlexLogic	
Underfrequency Restoration							FlexLogic	FlexLogic	
MONITORING & METERING	Current		■	Bargraph	■	■	■	■	■
	Voltage		■			■	■	■	■
	Power Factor		■			■	■	■	■
	Real, Reactive & Apparent Power		■			■	■	■	■
	Current, MW, MVAR, MVA Demand		■			■	■	■	■
	Energy		■			■	■	■	■
	Frequency					■	■	■	■
	Frequency Decay								
	Analog Inputs					■	■	■	■
	Fault Location								
	Event Recorder - Number of Events		1		32	1024	512	479	1024
	Oscillography - Cycles/Sampling Rate				24/8	263/16	256/16	128/16	263/16
	Breaker Arcing Current				Optional				
	Data Logger		■			■	■	■	■
	THD & Harmonics Meter								
COMMUNICATIONS	RS232 Port				1	1/2	1	1/2	1/2
	RS485 Port		1		1	0/1/2	2	0/1/2	0/1/2
	RS422 Port			Optional		0/1/2	1		0/1/2
	Ethernet Port								
	Fiber Optic Port								
	ModBus Protocol		■	■	■	■	■	■	■
	ModBus User Map								
	DNP3 Protocol								
	UCA2/MMS Protocol								
	EGD Protocol								
	Peer-to-peer communication								
	Simple Network Time Protocol								
IEC 60870-5-104									
IEC 61850 Protocol									

* For the most current comparison list, access us online at: www.GEMultilin.com/selector/distfeed.pdf