	FEATURES	DEVICE	745	T35	T60
PROTECTION	Differential	87	■	■	■
	Instantaneous Differential	50/87	■	■	■
	Maximum Number of Windings		3	6	4
	Dual Slope Characteristic		■	■	■
	Harmonic Restraint		■		■
	Internal Winding Phase Shift Compensation		■		■
	Dynamic CT Ratio-Matching		■		■
	CT Mismatch Range		16/1	32/1	32/1
	Unrestrained Operation		■	■	■
	Restricted Earth Fault	87N	Optional		■
	Overexcitation	24	■		■
	Phase Undervoltage	27			■
	IOC, Ground/Neutral/Phase/Negative Sequence	50G/N/P/Q	G/N/P		G/N/P
	IOC, Sensitive Ground	50SG			■
	TOC, Ground/Neutral/Phase/Negative Sequence	51G/N/P/Q	G/N/P	P	G/N/Q
	TOC, Sensitive Ground	51SG		■	■
	Breaker Failure	50BF	■		
	Custom programmable overcurrent curves		■	■	■
	Overvoltage, Neutral/Phase/Auxiliary	59	■		■
	Overvoltage, Symmetrical Component	59N			■
	Current Directional, Ground/Neutral/Phase/Neg. Seq.	67G/NP/Q	G		N
	Voltage Transformer Fuse Failure	VTFF	■		■
	Under/Overfrequency	81U/O	■		■
	Lockout Functionality	86		■	■
	Settings Groups		4	6	6
CONTROL	Non-volatile latches			■	■
	Programmable Elements				
	Programmable Logic			■	■
	FlexElements™			■	■
	Digital Inputs		8	80	80
	Contact Outputs (Fixed)		3		
	Contact Outputs (Programmable)		3	64	64
	Virtual Inputs/Outputs			32/64	32/64
	Direct Inputs/Outputs			32	32
	VFD/LCD Display		■	■	■
	Numerical Keypad		■	■	■
	Trip/Close Coil Supervision		Trip	Trip/Close	Trip/Close
	Breaker Control			■	■
	User-Programmable LEDs			■	■
	User-Programmable Self Test			■	■
	Selector Switch			■	■
	Digital Counters			■	■
	Digital Elements			■	■
	IRIG-B Input		■	■	■
	Analog Inputs/Outputs		■	Optional	Optional
	RTD Inputs		1	Optional	Optional
MONITORING & METERING	Power Factor		■	■	■
	Load Profile Monitoring		■	■	■
	Current – RMS		■	■	■
	Current – Phasor			■	■
	Current – Demand		■		
	Current - Unbalance		■		
	Current - Ground Leakage				
	Voltage – RMS		■	■	■
	Voltage – Phasor			■	■
	Power - Apparent, Real, Reactive		■	■	■
	MW, MVA, Mvar Demand				
	Breaker Halth Monitoring				
	Energy		■	■	■
	Frequency		■	■	■
	Temperature		■		
	Fault Report/Trip Data		■	■	■
	User Programmable Trip Reports			■	■
	Event Recorder - Number of Events		40	1024	1024
	Oscillography - Cycles @ Sampling Rate		64 @ 12	93.5 @ 16	93.5 @ 16
	Trip Counters		■	■	■
	Data Logger		■	■	■
	Test Mode with auxiliary contacts			■	■
COMMUNICATIONS	RS232 Port		■	■	■
	RS485 Port		■	■	■
	RS422 Port			Optional	Optional
	Ethernet Port		■	Optional	Optional
	Fiber Optic Port			Optional	Optional
	ModBus Protocol		■	■	■
	ModBus User Map		■	■	■
	DNP3 Protocol		■	■	■
	EGD Protocol				■
	Peer-to-peer communication (GOOSE)				■
	IEC 61850 Protocol				■
	Simple Network Time Protocol				■
	TCP/IP			■	■

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