

Distribution Feeder Protection Selector Guide



Distribution Feeder Protection

Features	Device	FM2	350
Protection & Control			
Current Disturbance Detector	50DD		
Synchronism Check	25		
Undervoltage, Phase/Auxiliary	27 P/X		
Directional Power	32		
Directional, Phase/Neutral/ Ground/ Negative Seq.	67P/N/G/_2		
Wattmetric Zero Seq. Directional			
Breaker Failure	50BF		•
IOC, Phase/Neutral/Ground/Negative Seq.	50 P/N/G/_2	G	P/G
IOC, Sensitive Ground			•
TOC, Phase/Neutral/Ground/ Negative Seq.	51 P/N/G		P/G
TOC, Sensitive Ground			
Custom programmable overcurrent curve			
Restrictive Ground Fault			
High Impedance Fault Detection (Hi-Z)			
Load Encroachment Logic			
Overvoltage, Phase/Auxiliary/Neutral/ Negative Seq.	59P/X/N		
AC Reclosing (Shots)	79		4
Underfrequency	81U		
Overfrequency	81O		
Lockout Protection			
Broken Conductor Detection			
Programmable Elements			
Voltage Transformer Fuse Failure			
Cold Load Pickup			•
FlexElements™			
Automation			
Settings Groups			2
Contact Inputs (Up to)		16	2
Contact Outputs (Up to)		6	5
Non-volatile latches			
User-Programmable Push Buttons (Up to)			
Graphical Display			
Trip/Close Coil Supervision			
Breaker Control		•	•
Programmable Logic			•
User-Programmable LEDs			•
Timers		•	•
Digital Counters			
Digital Elements			
Selector Switch			
Analog Inputs/Outputs (Up to)			
RTD Inputs			
Automatic Transfer Scheme			
Undervoltage Restoration		•	
Underfrequency Restoration			
Monitoring & Metering			
Current		•	•
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	256
Oscillography - Sampling Rate			32
Breaker Arcing Current			•
Data Logger		•	
THD & Harmonics Meter			
Communications			
RS232 Port			•
RS485 Port		•	•
RS422 Port, G.703, C73.94			
Ethernet			
Fiber (800nm, 1300nm, 1550nm)			
ModBus (RTU/TCP/IP)		•	•
DNP3 Protocol			•
IRIG-B Input			
EGD Protocol			
TCP/IP			•
Simple Network Time Protocol			•
IEC 60870-5-104			•
IEC61850 Protocol			•

