Fault Parameters Chart

KEY

Non-urgent fault

Urgent fault

Fault Type	Equipment Type				Top 6 KPI					
	Motor		Generator		Motor Fault	Electrical Supply Problems	Mechanical Rotating Fault	Mechanical Static Fault	Operational Fault inc Blocked Filter	Other
	specific	*generic*	*specific*	*generic*						
Electrical Rotor	x	x	x	x						
Electrical Stator	x	x	x	x						
Electrical Odd Harmonics	x		x	x						
Electrical Even Harmonics	x		x	x						
Motor Rotor Bars	x		x	x						
Motor Unbalance/Misalignment	x		x							
Generic Unbalance / Misalignment		x		x						
Motor Bearing 1	x		x							
Motor Bearing 2	x		x							
Motor Journal 1	x		x							
Generic Bearing		x		x						
Motor Foundation / Looseness	x									
Generic Foundation / Looseness		x		x						
Motor Transmission Looseness	x									
Generic Transmission Looseness		x		x						
Motor Resonance	x		x							
Trans 1 Belt Drive	x		x							
Trans 1 Gearbox	x		x							
Driven 1 Unbalance / Misalignment	x		x							
Driven 1 Bearing 1	x		x							
Driven 1 Bearing 2	x		x							
Driven 1 Journal 1	x		x							
Driven 1 Foundation Looseness	x		x							
Driven 1 Transmission Looseness	x		x							
Driven 1 Resonance	x		x							
Driven 1 Impeller 1	x		x							
Trans 2 Belt Drive	x		x							
Trans 2 Gearbox	x		x							
Driven 2 Unbalance / Misalignment	x		x							
Driven 2 Bearing 1	x		x							
Driven 2 Bearing 2	x		x							
Driven 2 Journal 1	x		x							
Driven 2 Foundation Looseness	x		x							
Driven 2 Transmission Looseness	x		x							
Driven 2 Resonance	x		x							
Driven 2 Impeller 1	x		x							
Power Factor	x	x	x	x						
Voltage Balance	x	x	x	x						
Current Balance	x		x	x						
Voltage THD	x		x	x						
Current THD	x		x	x						
Active Power: Nominal Power										
Any other spectral fault with Peak exceeding zone of parameters										

FAULT TYPES

Specific: Can be identified when the appropriate information has been entered into the system – typically, rotating element bearing type code numbers, number of vanes on a pump or fan impeller, and the numbers of teeth on each gear in a gearbox, or the pulley diameters and separation distance for belt drives.

Generic: Detected when there is no special information entered about the equipment apart from its normal voltage, nominal current, and nominal rotational speed.