

ISO 20958:2013-08 (E)

Condition monitoring and diagnostics of machine systems - Electrical signature analysis of three-phase induction motors

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Electrical signature analysis of three-phase induction motors	2
4.1	General	2
4.2	Stator current analysis	2
4.3	Electrical current, voltage, and power analysis	10
4.4	Magnetic flux analysis	12
4.5	Partial discharge analysis	13
4.6	Electromagnetic interference testing	18
4.7	Rotor current analysis	20
4.8	Shaft voltage analysis	20
	Annex A (informative) Park's vector approach	21
	Bibliography	23