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XS 840™

XT

**NEMA
Premium™**

Reliability in motion™

COMPARE BEFORE YOU BUY

FEATURE	EQPIII XS 840™	IEEE Std. 841-2001
NEMA Premium Efficiency Design™	Yes - All Ratings	1–200HP, 3600 RPM Motors Only
Inverter Duty Insulation System Meeting NEMA™ MGI-2003 Part 31	Yes	Not Required
Ingress Protection IP54 : 143T–286T & IP55 : 324–449T	Yes	Yes
Inpro Seal on Drive & Opposite End 320 Frame & Larger	Yes	As Required
Vibration Limit (Unfiltered)	Max 0.06 in/sec (H/V)	Max 0.08 in/sec (H/V)
Bearing Size	300 Series on DE & ODE on all Frames	Not Specified

XS 840™ MOTOR FEATURES

FEATURE	EQIII-XS 840™	IEEE Std. 841-2001
NEMA Premium Efficiency Design	Yes - All Ratings	1 thru 200HP, 3600 RPM Motors Only
Motor Torques Design	NEMA Design C	NEMA Design B
Winding Insulation Components	Class H	Class F
Maximum 80° C Rise @ 1.0 SF	Yes	Yes
Maximum 90° C Rise @ 1.15 SF	140 thru 445 Frames	Not Required
Inverter Duty Insulation System Meeting NEMA MG1-2003 Part 31	Yes	Not Required
Inverter Duty Capabilities	Defined on Nameplate	Not Specified
Multiple Varnish Dip & Bake on Winding	Yes	Not Required
Winding Phase Paper used on all Sizes	Yes	Yes
Number of Leads - One connection per phase	Yes	Yes
Leads with Terminal Lugs	Yes, 213T Frame & Larger	Yes
Lead Cable Temperature Rating - 125 C° minimum	Yes	Yes
Protective Coating on Winding (against moisture)	Yes	Not Required
Coating of Internal Machined Surfaces	Yes	Yes
Stator Core Burn-out Temperature Capability	Up to 1,000° F	Not Specified
Ingress Protection Designation		
	IP 54 : 143T – 286T	Yes
	IP 55 : 324T– 449T	Yes
Inpro Seal	Drive & Opposite Drive End 320 Frame & Larger	As Required
Vibration Limit (Unfiltered)	Max 0.06 in/sec (H/V)	Max 0.08 in/sec (H/V)
Cast Iron Frame & Brackets	Yes	Yes
Cast Iron Fan Cover Guard	Yes	Yes
Cast Iron Terminal Box	Yes	Yes
Moisture Resistant Barrier between Terminal Box & Frame	Yes, With Neoprene Lead Positioning Gasket	Yes
UL Ground Lug in T-box	Yes	Yes
Drain & Breather	Yes	Yes
Bearing Size	300 Series on DE & ODE on all Frames	Not Specified
Bearing Life (L10)		
	Direct Coupled Service	150,000 Hours Minimum
	Belt Drive Service	50,000 Hours Minimum
Regreaseable Bearings	Yes, 213T Frame & Larger	Yes, all Frames
Bearing Clearances C3	Yes	Yes
Inner Bearing Caps	Yes, 213T Frame & above	Yes, All Frames
Extended Grease Pipe Drive End	Yes, 213T Frame & above	Not Required
Automatic Grease Relief	Yes	Not Required
Nameplate - Stainless Steel	Yes, with Raised Letter	Yes
Motor Weight on Nameplate	Yes	Yes
Hardware Strength	Grade 5	Not Specified
Paint System - Pass 96 Hour Salt Spray Test	Yes	Yes
Foot Flatness - Maximum Coplanar Tolererance of 0.005 inches	Yes	Yes
Shaft Material	4142 High Tensile Strength 444T & Larger	Not Specified
Shaft Runout per IEEE 841-2001	Yes	Yes
Routine Commercial Test All Motors	Yes	Yes
Routine Test Report Shipped with Motor	Yes	Yes
Vibration Report as Assembled Unit	Yes, 444T Frame & Larger	Yes
CSA Recognized & UL Listed	Yes	Not Required

Reliability in motion™

ADJUSTABLE SPEED DRIVES MOTORS CONTROLS UPS INSTRUMENTATION PLC

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