

Introduction

Features at a glance

Severe duty



SD100

SD100 IEEE 841

HP Range	1 - 400	FS 140 - 250	1 - 400	FS 140 - S440
Frame Size	140 - S449		140 - S449	
Enclosure	TEFC		TEFC	
Frame	Cast Iron	8 Hole feet	Cast iron	8 Hole feet
Efficiency	NEMA Premium® NEMA Premium® +	FS 140 - S440 FS 140 - 250	NEMA Premium® NEMA Premium® +	FS 140 - S440 FS 140 - 250
Power Supply	3 Phase, 60Hz		3 Phase, 60Hz	
Voltage	208-230/460 V 460V 575V	1 - 20 HP 25 - 400 HP 1 - 400 HP	460 V 575V	FS 140 - S440 FS 140 - S440
Service Factor	1.15	Sine Wave	1.15	Sine Wave
Electrical Design	NEMA design B		NEMA design B	
Hazardous Classification	CL I Gr, C&D Div. 2	Optional	CL I Gr, C&D Div. 2	Optional
Insulation	Class F	NEMA MG1 Part 31	Class F	NEMA MG1 Part 31
Temperature Rise	Class B @ 1.0SF, Class F @ 1.15SF	Sine Wave	Class B @ 1.0SF, Class F @ 1.15SF	Sine Wave
Conduit Box (Oversized)	Cast Iron		Cast Iron	
Fan Cover	Cast Iron	FS 140 - S440	Cast Iron	FS 140 - S440
Cooling Fan	Bi-directional - polypropylene - Bronze Counter clockwise	FS 140 - 440 FS S440 300-400HP 2P/4P	Bi-directional - polypropylene - Bronze Counter clockwise	FS 140 - 440 FS S440 300-400HP 2P/4P
Lead Seal Gasket	Neoprene		Neoprene	
Rotor	Die Cast Aluminum Die Cast Copper	FS 140 - S440 FS 140 - 250	Die Cast Aluminum Die Cast Copper	FS 140 - S440 FS 140 - 250
Stator Winding	Copper - Random wound		Copper - Random wound	
Shaft	High strength carbon steel	C1045	High strength carbon steel	C1045
Shaft Seal / Slinger	V-ring slinger Meets IP54	(DE & NDE)	Inpro/Seal® Bearing Isolator Meets IP55	(DE & NDE)
Bearing Housing	Cast iron	FS 140-S440	Cast iron	140-S440
Bearing Type	Double Shielded Single Shielded Regreasable inlet and outlet	FS 140 - 250 FS 280 - S440	Double Shielded Single Shielded Regreasable inlet and outlet	FS 140 - 250 FS 280 - S440
Bearing Inner Cap	Cast Iron		Cast Iron	
Lubrication	Polyurea	Base Grease	Polyurea	Base Grease
Lube Inlet Fittings	Alemite		Alemite	
Lube Relief Fittings	Plug		Pressure relief (Auto)	
Vibration	0.08 IPS		0.06 IPS	
Nameplate	Stainless steel	engraved	Stainless steel	embossed
Condensation Drain	T-drains - lowest point (2)		T-drains - lowest point (2)	
Hardware	Rust resistant		Rust resistant	
Lifting Eyebolt	Included	Above 75 lbs	Included	
Paint	ALKYED MODIFIED	RAL7030	ALKYED MODIFIED	RAL7030
Warranty	36 Months		60 Months	
Inverter Duty	VT 20:1 CT 4:1 CT 10:1	FS 140 - 440 FS 140 - 440 FS 140 - 250 (Cu)	VT 20:1 CT 4:1 CT 10:1	FS 140 - 440 FS 140 - 440 FS 140 - 250 (Cu)