



Customer information packet

EM2554T-4

125HP, 3540RPM, 3PH, 60HZ, 404TS, 4476M, OPSB

Specifications

Enclosure	OPSB
Frame	404TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	143.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	143.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part detail

Revision	U
Type	AC
Mech. spec.	44E194
Base	
Status	PRD/A
Elec. spec.	44WGW324
Layout	44LYE194
Eff. date	11-19-2024
CD Diagram	CD0382
Poles	02
Leads	6#6
Proprietary	False
Created date	11-05-2010

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4476M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.85 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3540 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2138LUA												
CAT.NO.	EM2554T-4				P/N					ENCLOSURE		OPSB
SPEC.	44E194W324		CC	010A	FRAME		404TS		S/N			
HP	125				CLASS		F	HZ	60			
RPM	3540				PH	3	DES		B			
VOLT	460				KVA-CODE			G	ODE BRG	6312	DE BRG	6312
AMP	143											
RATING	40C AMB-CONT				GREASE		POLYREX EM					
NEMA-NOM-EFF	94.1	PF	88	SER.F.	1.15							
	50Hz 125Hp 190/380V 236/118A							SF 1.0				
HTR-VOLTS	HTR-AMPS											

AC Induction Motor Performance Data

Record # 33221

Typical performance - not guaranteed values

Winding: 44WGW324-R001				Type: 4476M		Enclosure: OPSB					
Nameplate Data				460 V, 60 Hz: Single Voltage Motor							
Rated Output (HP)		125		Full Load Torque		187 LB-FT					
Volts		460		Start Configuration		direct on line					
Full Load Amps		143		Breakdown Torque		554 LB-FT					
R.P.M.		3540		Pull-up Torque		197 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		295 LB-FT			
NEMA Design Code		B		KVA Code		G		Starting Current		893 A	
Service Factor (S.F.)		1.15		No-load Current		35.7 A					
NEMA Nom. Eff.		94.1		Power Factor		88		Line-line Res. @ 25°C		0.038466 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		39°C					
S.F. Amps				Temp. Rise @ S.F. Load		48°C					
				Locked-rotor Power Factor		17.2					
				Rotor inertia		9.94 LB-FT2					

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	83	87	88	89	88	89
Efficiency	91.9	94.5	94.7	94.3	93.7	92.8	93.9
Speed	3588.6	3581.9	3573.7	3564.4	3553.5	3541.5	3558
Line amperes	51	78.3	108	143	179	217	165

ABB Motors and Mechanical Inc.

WINDING # 44WG324

Typical performance - not guaranteed values.

125 HP 3 PH 60 HZ 3540 RPM 460 V 4476M

TORQUES (LB-FT): PO=554 PU=197 LR=295 LRA=893





