



Customer information packet

EM2559TS-4

125HP, 1775RPM, 3PH, 60HZ, 405TS, 4488M, OPSB

Specifications

Enclosure	OPSB
Frame	405TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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	95.4 %
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	X
Type	AC
Mech. spec.	44F006
Base	
Status	PRD/A
Elec. spec.	44WGW047
Layout	44LYF006
Eff. date	11-19-2024
CD Diagram	CD0382
Poles	04
Leads	6#4
Proprietary	False
Created date	08-03-2010

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 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.97 IN
Power Factor	86
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	1775 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.	EM2559TS-4				P/N					ENCLOSURE		OPSB	
SPEC.	44F006W047G1			CC	010A	FRAME		405TS		S/N			
HP	125				CLASS		F	HZ	60				
RPM	1775				PH	3	DES		B				
VOLT	460				KVA-CODE			G	ODE BRG		6312	DE BRG	6316
AMP	143												
RATING	40C AMB-CONT				GREASE		POLYREX EM						
NEMA-NOM-EFF	95.4	PF	86	SER.F.	1.15								
	50HZ 100HP 380V 138A SF 1.0												
HTR-VOLTS			HTR-AMPS										

AC Induction Motor Performance Data

Record # 13893

Typical performance - not guaranteed values

Winding: 44WGW047-R001			Type: 4488M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		125		Full Load Torque		369 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		143		Breakdown Torque		1004 LB-FT	
R.P.M.		1775		Pull-up Torque		454 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		540 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current	914 A
Service Factor (S.F.)		1.15		No-load Current		46 A	
NEMA Nom. Eff.		95.4	Power Factor	86	Line-line Res. @ 25°C		0.0379 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	48°C
S.F. Amps						Temp. Rise @ S.F. Load	64°C
						Locked-rotor Power Factor	25.5
						Rotor inertia	16.6 lb-ft²

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	84	86	87	86	87
Efficiency	93.5	95.5	95.7	95.4	94.9	94.1	95.1
Speed	1794	1789	1783	1777	1770	1762	1773
Line amperes	56.3	79.8	109.4	142.6	177.7	216	163.7

ABB Motors and Mechanical Inc.

WINDING # 44WG047

Typical performance - not guaranteed values.

125 HP 3 PH 60 HZ 1775 RPM 460 V 4488M

TORQUES (LB-FT): PO=1004 PU=454 LR=540 LRA=914





