



Customer information packet

EM2555TS-12

100HP, 1780RPM, 3PH, 60HZ, 404TS, 4484M, OPSB

Specifications

Enclosure	OPSB
Frame	404TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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	118.000 A @ 460.0 V 236.000 A @ 230.0 V
Design Code	A
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	118.0 a

Part detail

Revision	R
Type	AC
Mech. spec.	44F006
Base	
Status	PRD/A
Elec. spec.	44WGW316
Layout	44LYF006
Eff. date	10-31-2024
CD Diagram	CD0104
Poles	04
Leads	12#4
Proprietary	False
Created date	07-06-2011

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4484M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.97 IN
Power Factor	83
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	1780 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.	EM2555TS-12			P/N					ENCLOSURE		OPSB	
SPEC.	44F006W316G1		CC	010A	FRAME		404TS		S/N			
HP	100			CLASS		F	HZ	60				
RPM	1780			PH	3	DES		A				
VOLT	230/460			KVA-CODE			H	ODE BRG		6312	DE BRG	6316
AMP	236/118											
RATING	40C AMB-CONT				GREASE		POLYREX EM					
NEMA-NOM-EFF	95.4	PF	83	SER.F.	1.15							
	50Hz 100Hp 190/380V 278/139A							SF 1.0				
HTR-VOLTS		HTR-AMPS										

AC Induction Motor Performance Data

Record # 32036

Typical performance - not guaranteed values

Winding: 44WGW316-R001			Type: 4484M		Enclosure: OPSB			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		100	Full Load Torque		295 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		236/118	Breakdown Torque		884 LB-FT			
R.P.M.		1780	Pull-up Torque		375 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		498 LB-FT		
NEMA Design Code		A	KVA Code	H	Starting Current		852 A	
Service Factor (S.F.)		1.15	No-load Current		46.4 A			
NEMA Nom. Eff.		95.4	Power Factor		83	Line-line Res. @ 25°C		0.045551 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		47°C	
S.F. Amps					Temp. Rise @ S.F. Load		57°C	
					Locked-rotor Power Factor		25.3	
					Rotor inertia		15.9 LB-FT2	

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	70	79	83	85	86	84
Efficiency	92.6	95.3	95.7	95.6	95.2	94.6	95.4
Speed	1794	1789.8	1785.5	1780.7	1775.5	1769.8	1778
Line amperes	54.2	70.6	92.8	118	145	173	134

ABB Motors and Mechanical Inc.

WINDING # 44WG316

Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M

TORQUES (LB-FT): PO=884 PU=375 LR=498 LRA=852





