

BALDOR® • RELIANCE 

Product Information Packet

EM2555T-12

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

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	44WGW316	CD Diagram:	CD0104	Mfg Plant:	
Mech. Spec:	44E192	Layout:	44LYE192	Poles:	04	Created Date:	08-06-2010
Base:	RG	Eff. Date:	11-29-2023	Leads:	12#4		

Specs			
Catalog Number:	EM2555T-12	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Not Inverter
Frame:	404T	KVA Code:	H
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	100.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 4 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	4484M
Agency Approvals:	CSA EEV	Mounting Arrangement:	F1
	NEMA PREMIUM	Power Factor:	83
	NEMA_PREMIUM	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Current @ Voltage:	236.000 A @ 230.0 V	Shaft Rotation:	Reversible
	118.000 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Wye Start - Delta Run
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP2138LUA											
CAT.NO.	EM2555T-12			P/N				ENCLOSURE	OPSB		
SPEC.	44E192W316		CC	010A		FRAME	404T		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						
HTR-VOLTS	50Hz 100Hp 190/380V 278/139A			SF 1.0							
HTR-AMPS											

AC Induction Motor Performance Data

Record # 32036

Typical performance - not guaranteed values

Winding: 44WG316-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-FT ²	

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

Performance Graph at 460V, 60Hz, 100.0HP Typical performance - Not guaranteed values





