

BALDOR® • RELIANCE

Product Information Packet

EM2555T-12

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

Part Detail							
Revision:	L	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:	09-05-2017	Leads:	12#4		

Specs			
Catalog Number:	EM2555T-12	Inverter Code:	Not Inverter
Enclosure:	OPSB	KVA Code:	H
Frame:	404T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Steel	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:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	4484M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	83
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	118.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	236.000 A @ 230.0 V	Shaft Rotation:	Reversible

Design Code:	A	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Wye Start - Delta Run
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	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			USABLE AT	208V						
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				MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 32036 - Typical performance - not guaranteed values

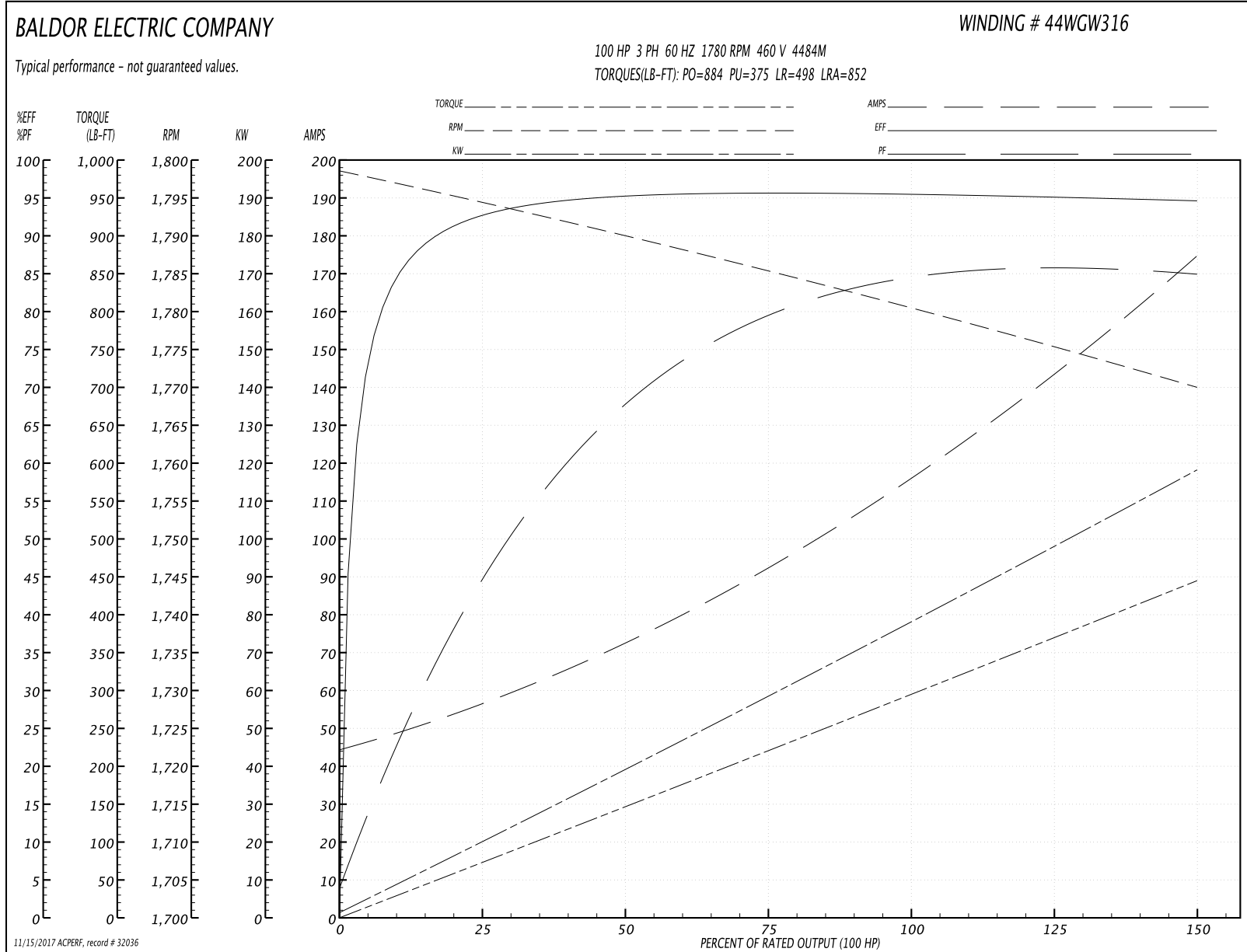
Winding: 44WGW316-R001	Type: 4484M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	100			Full Load Torque	295 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	236/118			Breakdown Torque	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

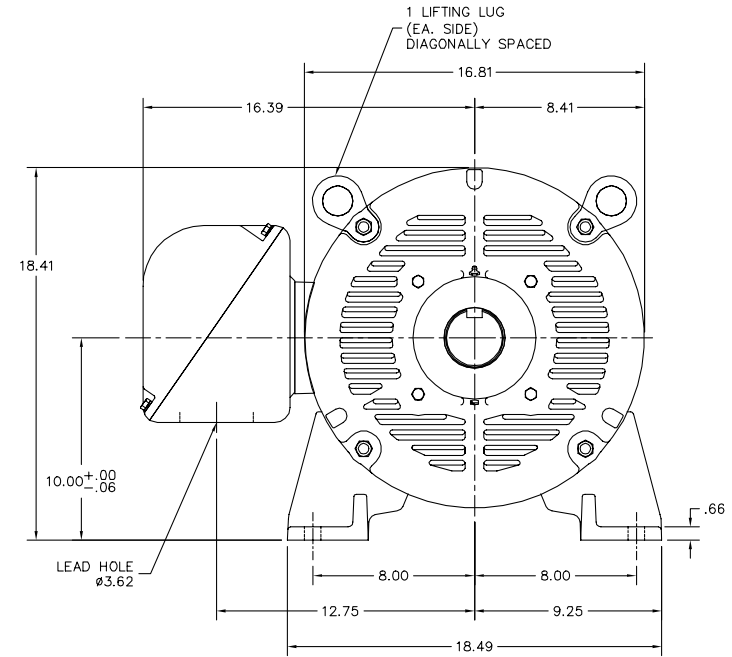
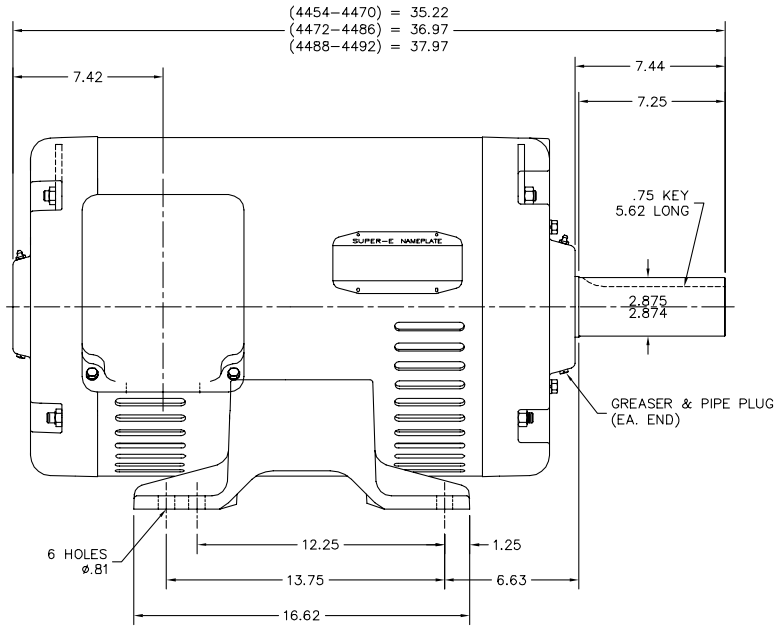
Load Characteristics 460 V, 60 Hz, 100 HP

% 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



44LYE192



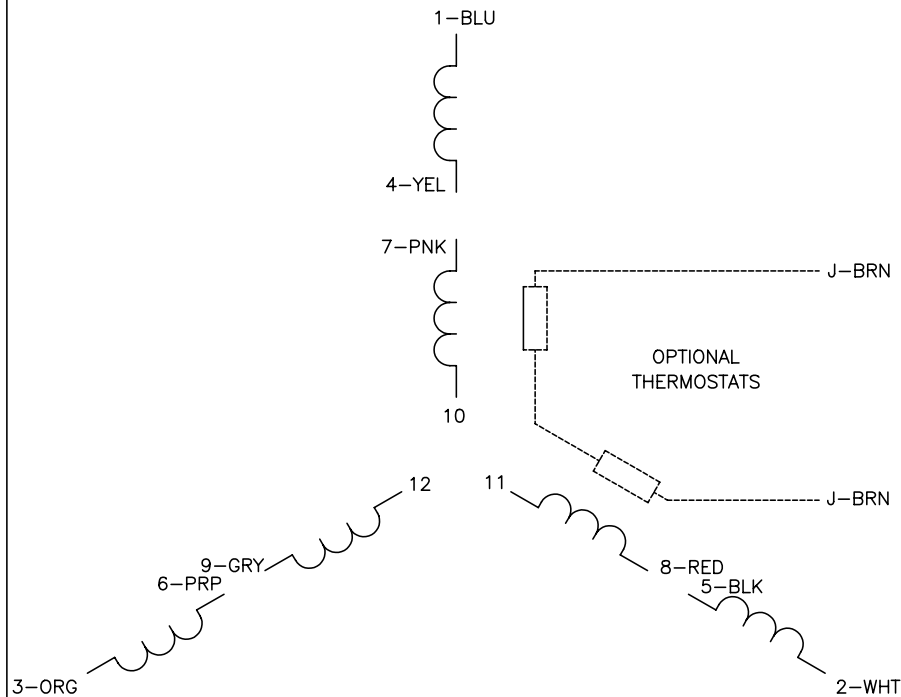
44LYE192

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

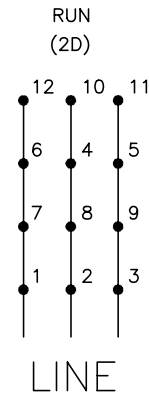
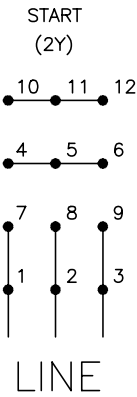
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FILE: \AAA\00164\040	REVISED: 09:46:31 05/29/2014	BY: ENNINDO
MTL: -		

BALDOR
 HORZ OPSB 404-5T, SUPER-E
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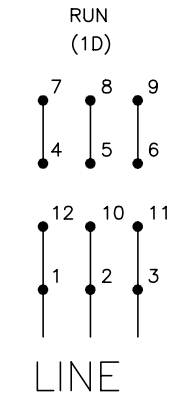
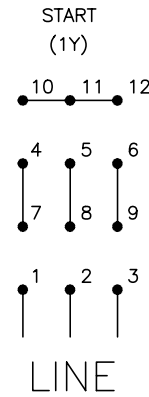
CD0104



LOW VOLTAGE



HIGH VOLTAGE



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 01/19/99 4:24	TDR: 0171435
CD0104		FILE: AAA00008377	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 12 LEADS, Y START/D RUN

CD0104