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Product Information Packet

EM4115TS

50HP,1775RPM,3PH,60HZ,326TS,1272M,TEFC,F

Part Detail

Revision:	P	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	12WGY141	**CD Diagram:**	CD0180	**Mfg Plant:**	
Mech. Spec:	12H11	**Layout:**	12LYH011	**Poles:**	04	**Created Date:**	08-03-2010
Base:	RG	**Eff. Date:**	09-07-2017	**Leads:**	9#6		

Specs

Catalog Number:	EM4115TS	**Heater Indicator:**	No Heater
Enclosure:	TEFC	**Insulation Class:**	F
Frame:	326TS	**Inverter Code:**	Inverter Ready
Frame Material:	Iron	**KVA Code:**	H
Output @ Frequency:	50.000 HP @ 60 HZ	**Lifting Lugs:**	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Locked Bearing Indicator:**	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 6 AWG
	230.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
XP Class and Group:	None	**Motor Lead Termination:**	Flying Leads
XP Division:	Not Applicable	**Motor Type:**	1272M
Agency Approvals:	UR	**Mounting Arrangement:**	F1
	CSA EEV	**Power Factor:**	85
	CSA	**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:	116.000 A @ 230.0 V
	128.000 A @ 208.0 V
	58.000 A @ 460.0 V
Design Code:	A
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	Shaft Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
Starting Method:	Direct on line
Thermal Device - Bearing:	None
Thermal Device - Winding:	None
Vibration Sensor Indicator:	No Vibration Sensor
Winding Thermal 1:	None
Winding Thermal 2:	None

Nameplate NP3443LUA

CAT.NO.	EM4115TS			**CUST. P/N**				**ENCL**	TEFC
SPEC.	12H011Y141G1	**CC**	010A	**FRAME**	326TS			**SER.NO.**	
HP	50			**CLASS**	F	**HZ**	60		
R.P.M.	1775			**PH.**	3	**DES.**	A		
VOLTS	230/460			**CODE**	H	**ODE BRG**	6311	**DE BRG**	6312
AMPS	116/58			**USABLE AT 208V**	128				
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	94.5			**GREASE**	POLYREX EM
P.F.	85	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**					
USABLE AT	50Hz 50HP 190/380V 138/			69A SF1.0					
VOLTS		**AMPS**		**MAX. SPACE HEATER TEMP.**					

AC Induction Motor Performance Data

Record # 31496 - Typical performance - not guaranteed values

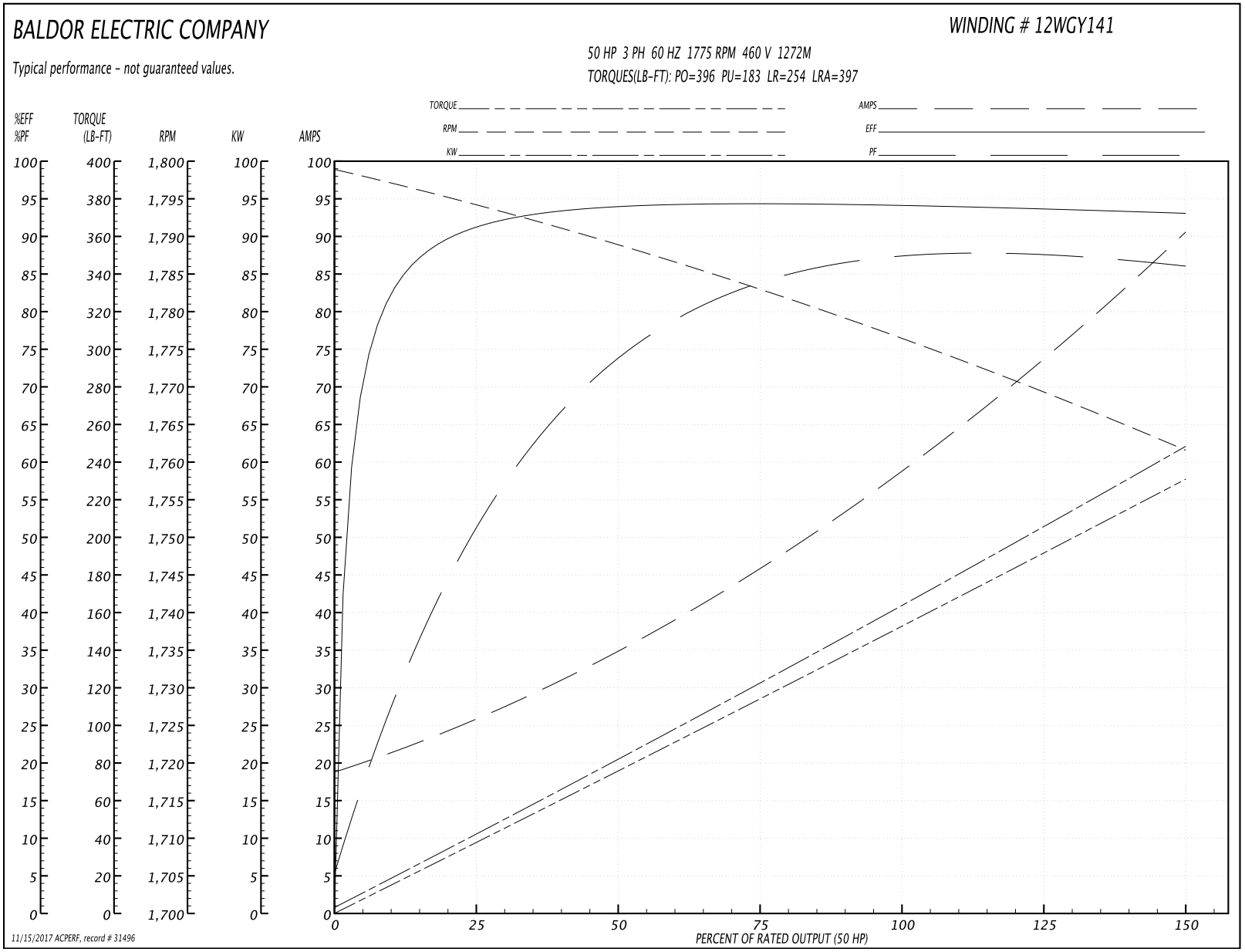
Winding: 12WGY141-R003	**Type:** 1272M	**Enclosure:** TEFC

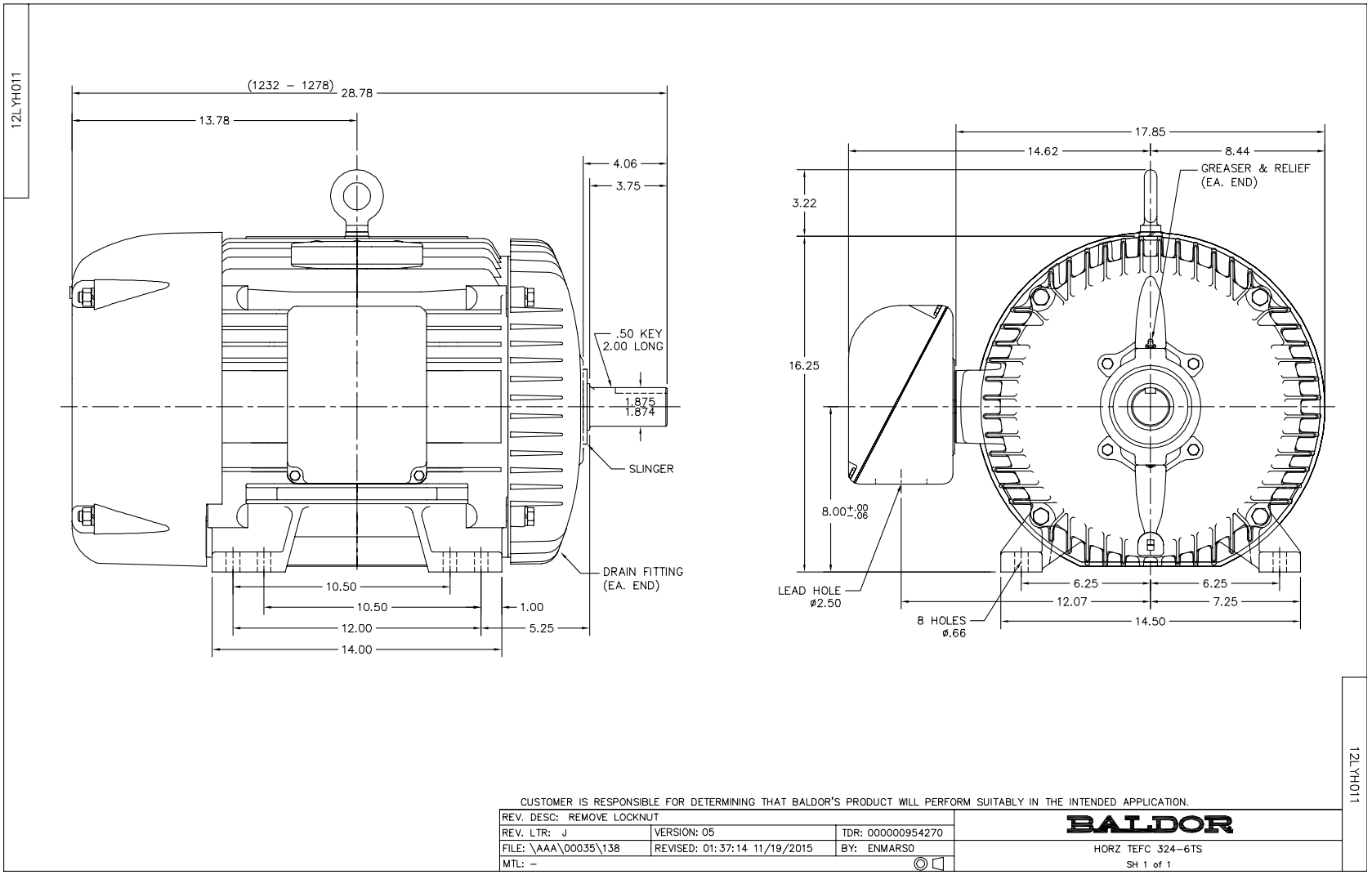
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	50			Full Load Torque	147 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	116/58			Breakdown Torque	396 LB-FT
R.P.M.	1775			Pull-up Torque	183 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	254 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	397 A
Service Factor (S.F.)	1.15			No-load Current	19.8 A
NEMA Nom. Eff.	94.5	Power Factor	85	Line-line Res. @ 25ºC	0.10889 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	64°C
S.F. Amps				Temp. Rise @ S.F. Load	79°C
				Locked-rotor Power Factor	26.4
				Rotor inertia	9.59 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

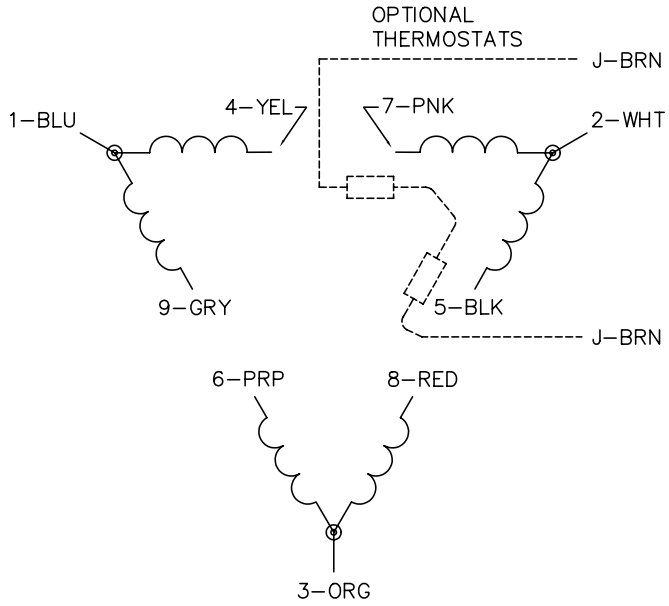
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	83	86	87	87	87
Efficiency	91.3	94.3	94.8	94.6	94	93.1	94.2
Speed	1794.5	1789.3	1783.5	1777.5	1770.7	1761.5	1773
Line amperes	24.2	33.5	44.7	57.6	71.5	90	65.9

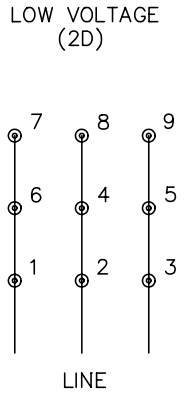
Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values

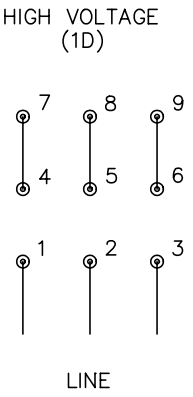




CD0180







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.

CD0180

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: JLP	REVISED: 01/21/99 2:28	TDR: 0171435
CD0180		FILE: AAA00005148	MDL: –
		MTL: –	3PH, DV, 9 LEADS, DELTA CONNECTION