

ABB BALDOR RELIANCE III

Customer information packet OF4117T

30HP, 1125RPM, 3PH, 60HZ, 326T, 1262M, TEFC, F2

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 796.0 V @ 60 HZ
Agency Approvals	UR CSA
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	22.500 A @ 796.0 V 39.000 A @ 460.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	22.5 a

Part Detail

Revision	Q
Type	AC
Mech. spec.	12E383
Base	
Status	INA/A
Elec. spec.	12WGY236
Layout	12LYE383
Eff. date	01-30-2019
CD Diagram	CD0022
Poles	06
Leads	6#8 ML4400B08
Proprietary	False
Created date	01-28-2010

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1262M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	30.27 IN
Power Factor	83
Product Family	Chemical Processing (Not DC)
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	Shaft Slinger
Speed	1125 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2961E									
CAT.NO.									
SPEC.	12E383Y236								
HP	30								
VOLTS	460/796								
AMP	39/22.5								
RPM	1125								
FRAME	326T	HZ	60		PH	3			
SER.F.	1.15	CODE	G	DES	D	CLASS	F		
NEMA-NOM-EFF	88.5	PF	83						
RATING	40C AMB-CONT								
CC	USABLE AT 208V								N/A
DE	6312	ODE	6311						
ENCL	TEFC	SN							

NP0090E	
FRONT	6311
PULLEY	6312
LUBRICATE WITH	
GREASE	POLYREX EM

Accessories

Part number	Description	Multiplier
12-1105	C FACE KIT	A8
12EP1501A03SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 31315

Typical performance - not guaranteed values

Winding: 12WGY236-R001			Type: 1262M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		30		Full Load Torque		140 LB-FT	
Volts		460/796		Start Configuration		direct on line	
Full Load Amps		39/22.5		Breakdown Torque		460 LB-FT	
R.P.M.		1125		Pull-up Torque		267 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		370 LB-FT	
NEMA Design Code		D	KVA Code	G		Starting Current	234 A
Service Factor (S.F.)		1.15		No-load Current		16.1 A	
NEMA Nom. Eff.		88.5	Power Factor	83		Line-line Res. @ 25°C	0.211 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		87°C	
S.F. Amps				Temp. Rise @ S.F. Load		110°C	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	69	78	83	84	85	84
Efficiency	83.1	88	88.1	86.9	85	81.9	85.8
Speed	1182	1165	1147	1125	1100	1066	1110
Line amperes	17.7	23.4	30.7	39.1	49	62.7	45

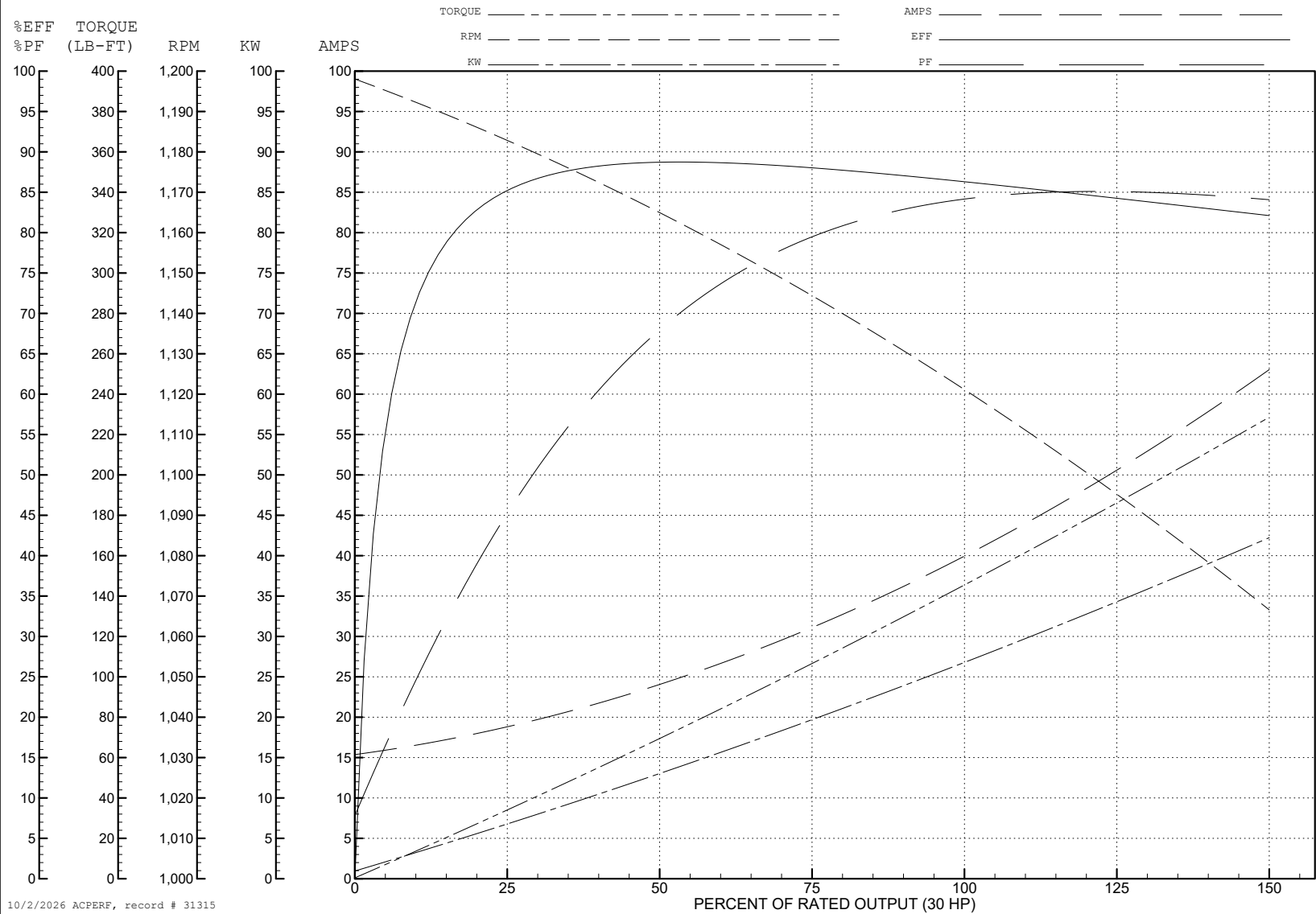
ABB Motors and Mechanical Inc.

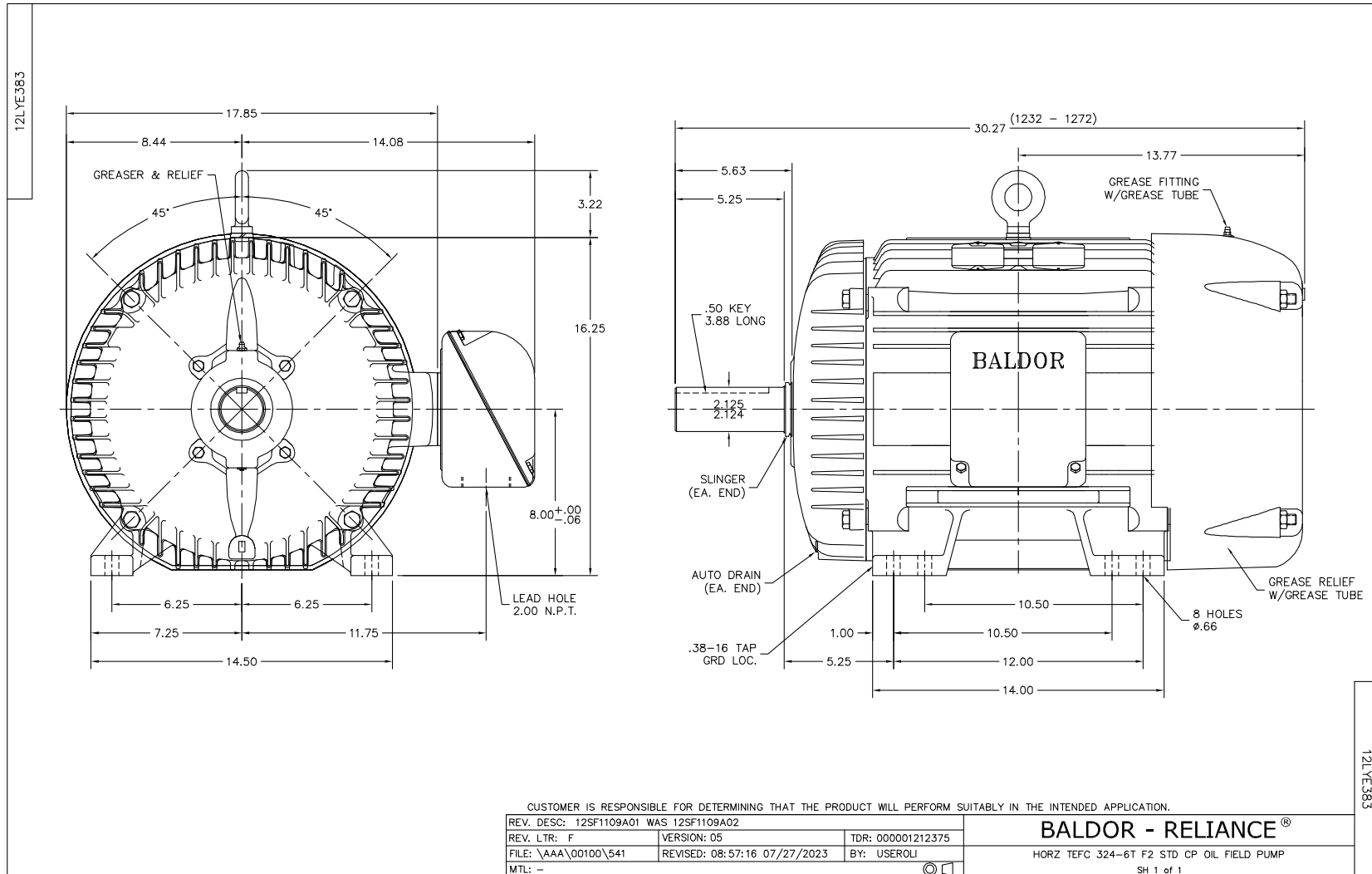
WINDING # 12WGY236

Typical performance - not guaranteed values.

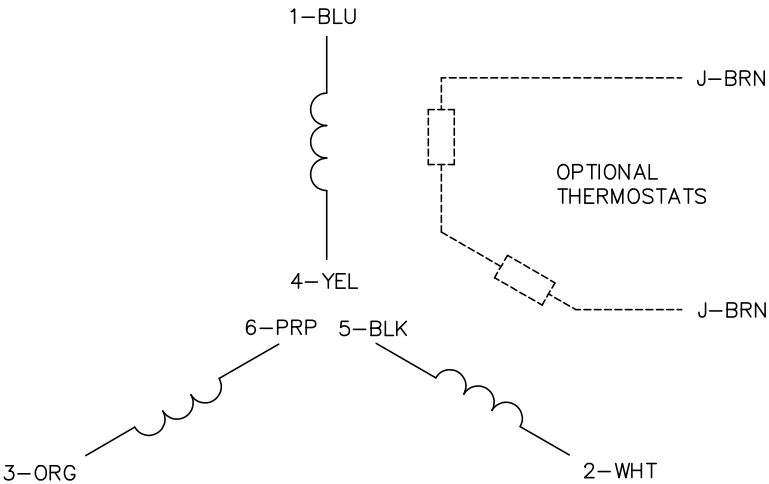
30 HP 3 PH 60 HZ 1125 RPM 460 V 1262M

TORQUES (LB-FT): PO=460 PU=267 LR=370 LRA=234

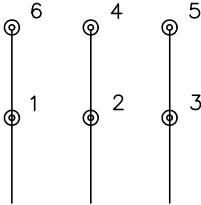




CD0022

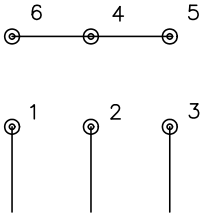


LOW VOLTAGE
(1D)



LINE

HIGH VOLTAGE
(1Y)



LINE

- 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: F

BY: JLP

REVISED: 01/21/99 3:54

TDR: 0171435

CD0022

FILE: AAA00005144

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022