

ABB BALDOR RELIANCE III

Customer information packet

EM4115T-8

50HP, 1775RPM, 3PH, 60HZ, 326T, 1266M, TEFC, F1

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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	129.000 A @ 208.0 V 131.000 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
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	131.0 a

Part Detail

Revision	AL
Type	AC
Mech. spec.	12H13
Base	
Status	PRD/A
Elec. spec.	12WGX281
Layout	12LYH013
Eff. date	06-27-2024
CD Diagram	CD0695
Poles	04
Leads	6#6
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1266M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	87
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	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3443L													
CAT.NO.	EM4115T-8				CUST. P/N				ENCL				TEFC
SPEC.	12H013X281G1	CC	010A	FRAME	326T	SER.NO.							
HP	50		CLASS	F	HZ	60							
R.P.M.	1775		PH	3	DES	B							
VOLTS	200			CODE	H	ODE BRG		6311	DE BRG	6312			
AMPS	131												
RATING	40C AMB-CONT		NEMA NOM. EFF.			94.5	GREASE		POLYREX EM				
P.F.	87	SER.F.	1.15	VPWM INVERTER READY									
HTR-VOLTS	HTR-AMPS		HTR-WATTS										

Accessories

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

AC Induction Motor Performance Data

Record # 3432

Typical performance - not guaranteed values

Winding: 12WGX281-R001			Type: 1266M		Enclosure: TEFC		
Nameplate Data			200 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		50	Full Load Torque		149 LB-FT		
Volts		200	Start Configuration		direct on line		
Full Load Amps		131	Breakdown Torque		446 LB-FT		
R.P.M.		1775	Pull-up Torque		210 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		229 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		897 A
Service Factor (S.F.)		1.15	No-load Current		46.6 A		
NEMA Nom. Eff.		94.5	Power Factor	87	Line-line Res. @ 25°C		0.0211 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C	
S.F. Amps				Temp. Rise @ S.F. Load		77°C	
				Locked-rotor Power Factor		27	
				Rotor inertia		8.79 LB-FT2	

Load Characteristics 200 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	71	81	88	87	88	87
Efficiency	91.5	94.4	94.9	94.7	94.3	93.6	94.5
Speed	1795	1790	1784	1778	1773	1765	1775
Line amperes	62	82	107	131	165	197	151.4

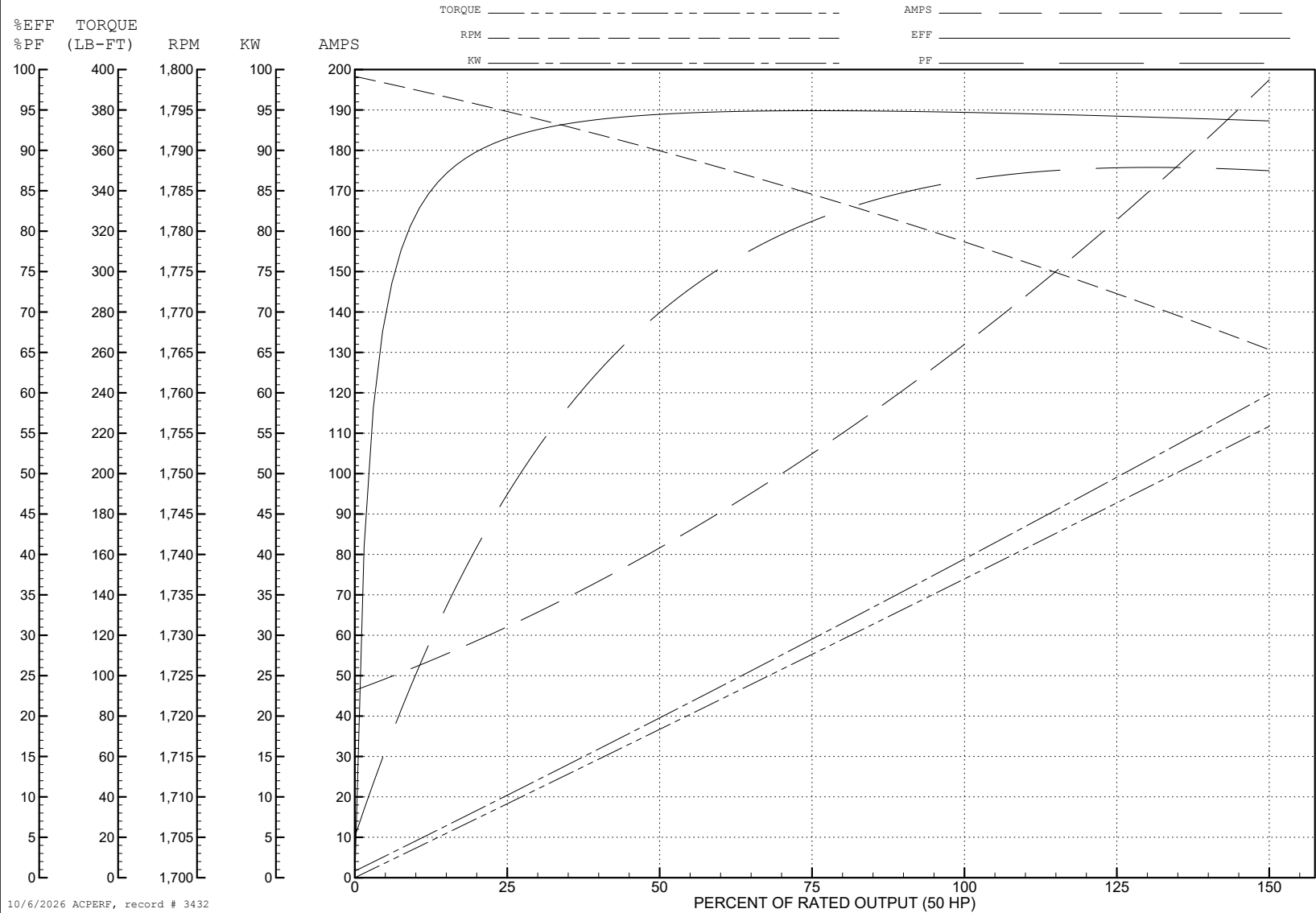
ABB Motors and Mechanical Inc.

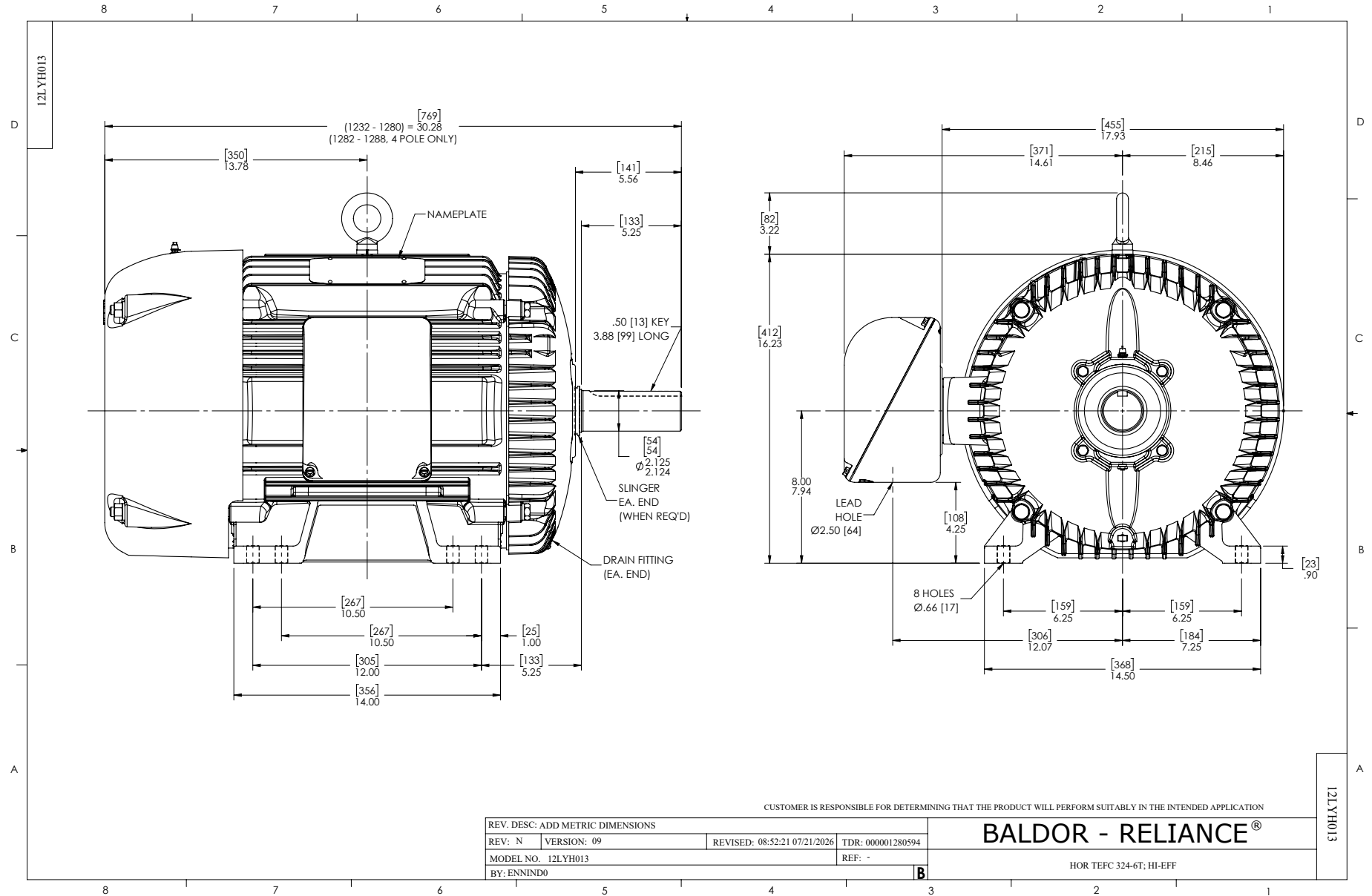
WINDING # 12WGX281

Typical performance - not guaranteed values.

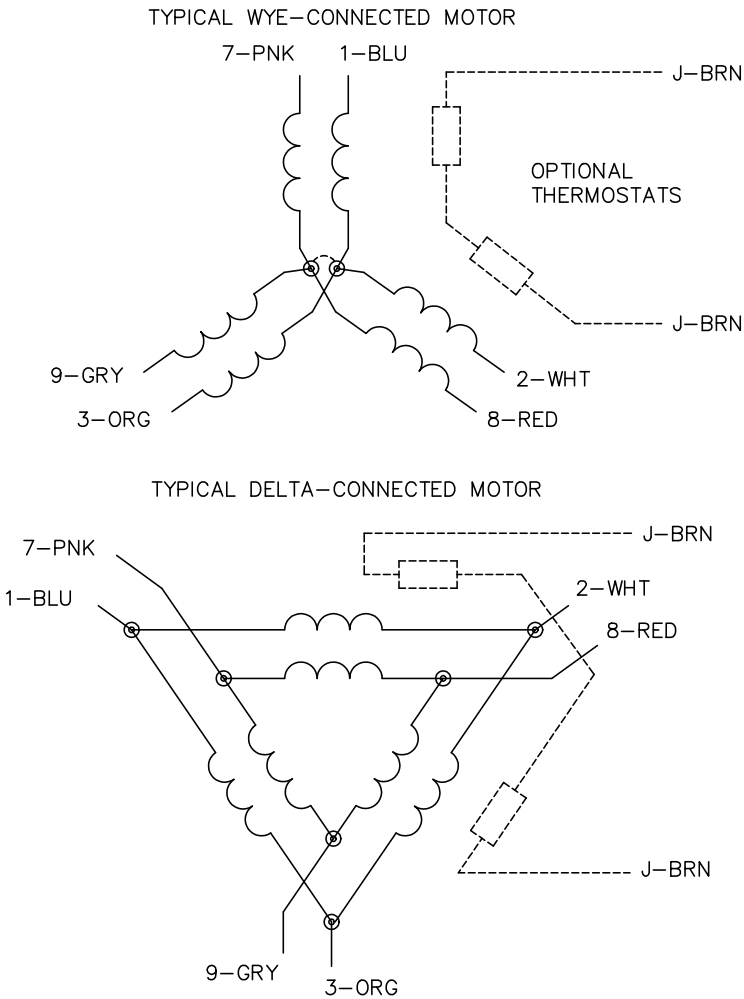
50 HP 3 PH 60 HZ 1775 RPM 200 V 1266M

TORQUES (LB-FT): PO=446 PU=210 LR=229 LRA=897

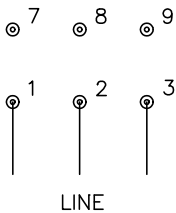




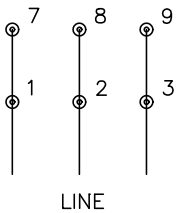
CD0695



START CONNECTION



RUN CONNECTION



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C

BY: JLP

REVISED: 01/21/99 3:19

TDR: 0171435

S69000

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695