



Customer information packet

EM4115TS

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326TS
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	58.000 A @ 460.0 V 126.000 A @ 208.0 V 116.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	H
Type	AC
Mech. spec.	12H11
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYH011
Eff. date	03-05-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-03-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	58.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.84 IN
Power Factor	85
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	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed
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.	12H011Z279G1	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						
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 139/69.5A	SF1.0					
VOLTS	AMPS	MAX. SPACE HEATER TEMP.					

AC Induction Motor Performance Data

Record # 93227

Typical performance - not guaranteed values

Winding: 12WGZ279-R001		Type: 1272M		Enclosure: TEFC				
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)	50	Full Load Torque	148 LB-FT					
Volts	230/460	Start Configuration	direct on line					
Full Load Amps	116/58	Breakdown Torque	437.3 LB-FT					
R.P.M.	1775	Pull-up Torque	223.3 LB-FT					
Hz	60 Phase	3	Locked-rotor Torque	255.3 LB-FT				
NEMA Design Code	A	KVA Code	H	Starting Current	407.47 A			
Service Factor (S.F.)	1.15	No-load Current	21 A					
NEMA Nom. Eff.	94.5	Power Factor	85	Line-line Res. @ 25°C	0.11287 Ω			
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load			66°C		
S.F. Amps	132/66	Temp. Rise @ S.F. Load			82°C			
			Locked-rotor Power Factor			26.5		

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	85	87	87	86
Efficiency	91.5	94.3	94.7	94.5	93.8	93	94.1
Speed	1791.2	1786.1	1779.1	1773.3	1766.2	1758.5	1769
Line amperes	25.1	34.1	45.4	58.2	72	87	66.5

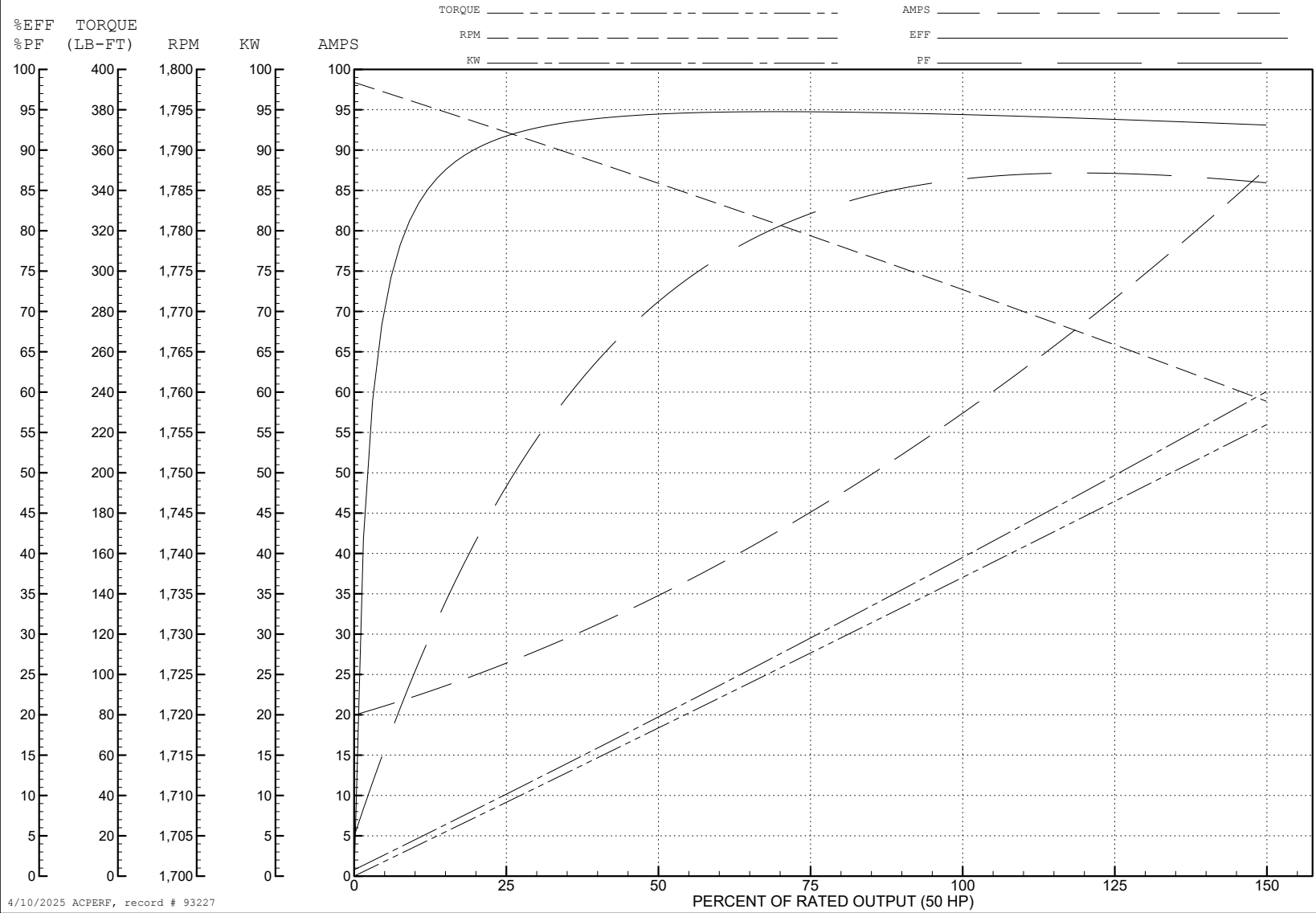
ABB Motors and Mechanical Inc.

WINDING # 12WGZ279

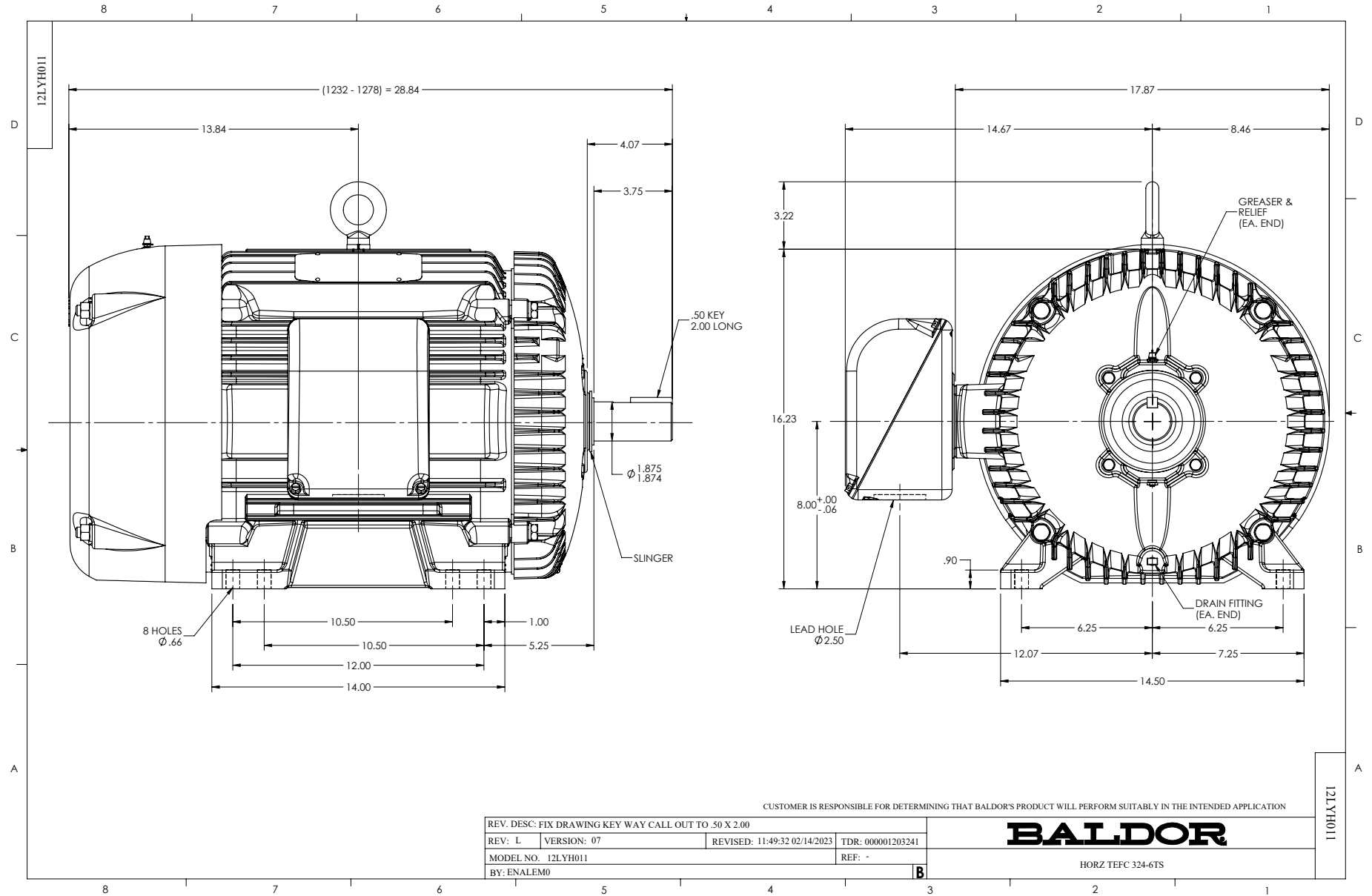
Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

TORQUES (LB-FT): PO=437.3 PU=223.3 LR=255.3 LRA=407.47



4/10/2025 ACPERF, record # 93227



CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ADD CLASS CONN00000007		
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MTL: -	© □	

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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