

ABB BALDOR RELIANCE III

Customer information packet

EM2531T-CI

25HP, 1775RPM, 3PH, 60HZ, 286T, 1050M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	286T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 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	62.000 A @ 230.0 V 66.000 A @ 208.0 V 31.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	K
Type	AC
Mech. spec.	10D01
Base	
Status	PRD/A
Elec. spec.	10WGZ653
Layout	10LYD001
Eff. date	09-23-2026
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	06-30-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1050M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.94 IN
Power Factor	80
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP3554LUA											
CAT.NO.	EM2531T-CI			P/N						ENCL	OPEN
SPEC.	10D001Z653G1	CC	010A	FRAME		286T	SER.NO.				
HP	25		CLASS		F	HZ	60				
RPM	1780		PH	3	DES		A				
VOLTS	230/460			CODE		J	ODE BRG	6309	DE BRG	6310	
AMPS	64/32										
RATING	40C AMB-CONT		NEMA-NOM-EFF			93.6	GREASE	POLYREX EM			
PF	78	SER.F.	1.15	CT30-60(2:1) VT3-60(20:1)							
USABLE AT	50HZ 25HP 190/380V 74/37A			SF 1.0							
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 66181

Typical performance - not guaranteed values

Winding: 10WGZ653-R001			Type: 1050M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25	Full Load Torque		73.68 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		64/32	Breakdown Torque		264 LB-FT		
R.P.M.		1780	Pull-up Torque		126 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		145 LB-FT	
NEMA Design Code		A	KVA Code		J		
Service Factor (S.F.)		1.15	No-load Current		16.04 A		
NEMA Nom. Eff.		93.6	Power Factor		78		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		27°C
S.F. Amps					Temp. Rise @ S.F. Load		33°C
					Locked-rotor Power Factor		32.4
					Rotor inertia		3.97 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	71	78	81	84	81
Efficiency	88.6	92.9	93.9	94	93.8	93.3	93.9
Speed	1795	1791	1786	1780	1775	1770	1776
Line amperes	17.54	21.04	26.07	31.94	38.29	44.95	35.1

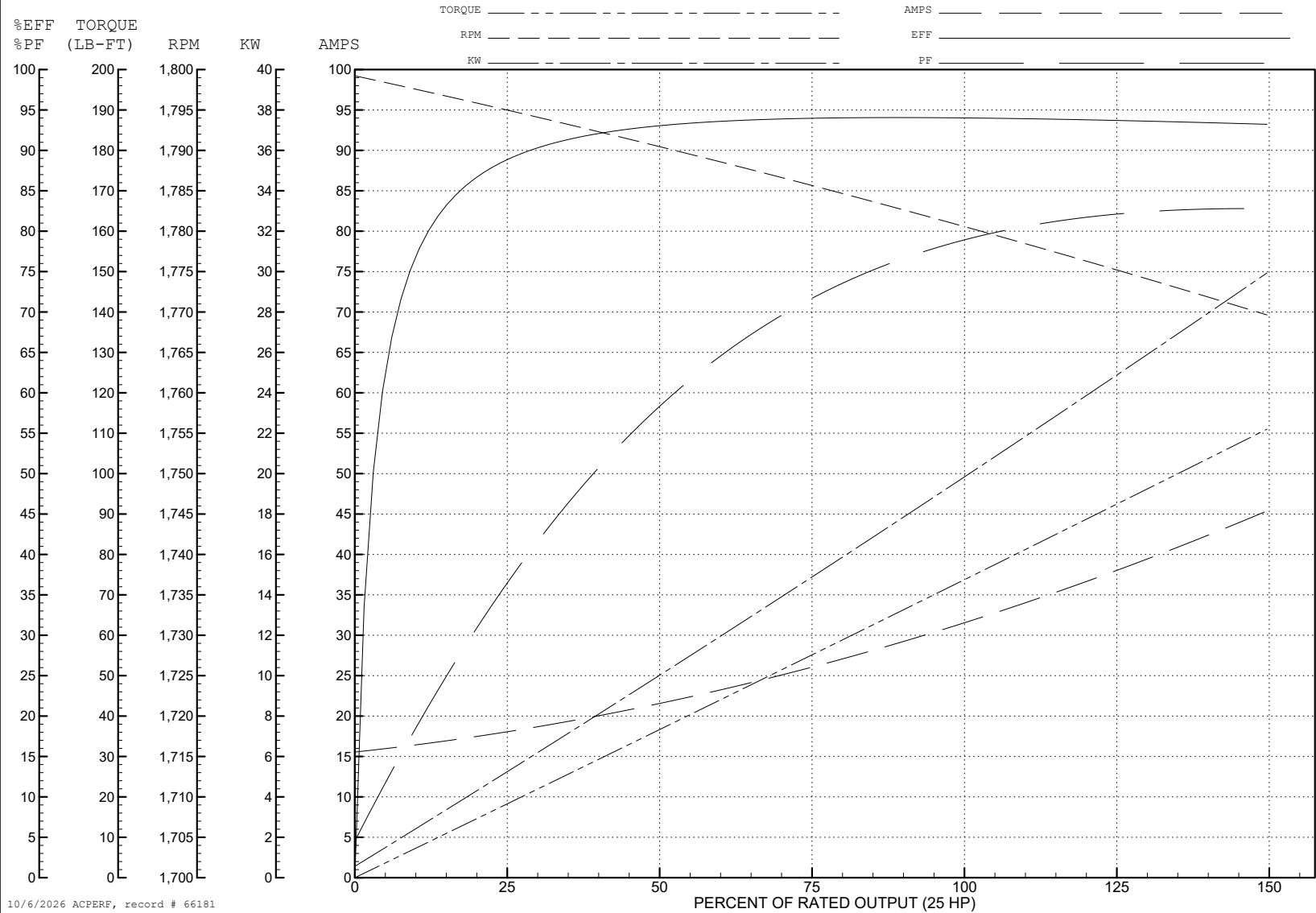
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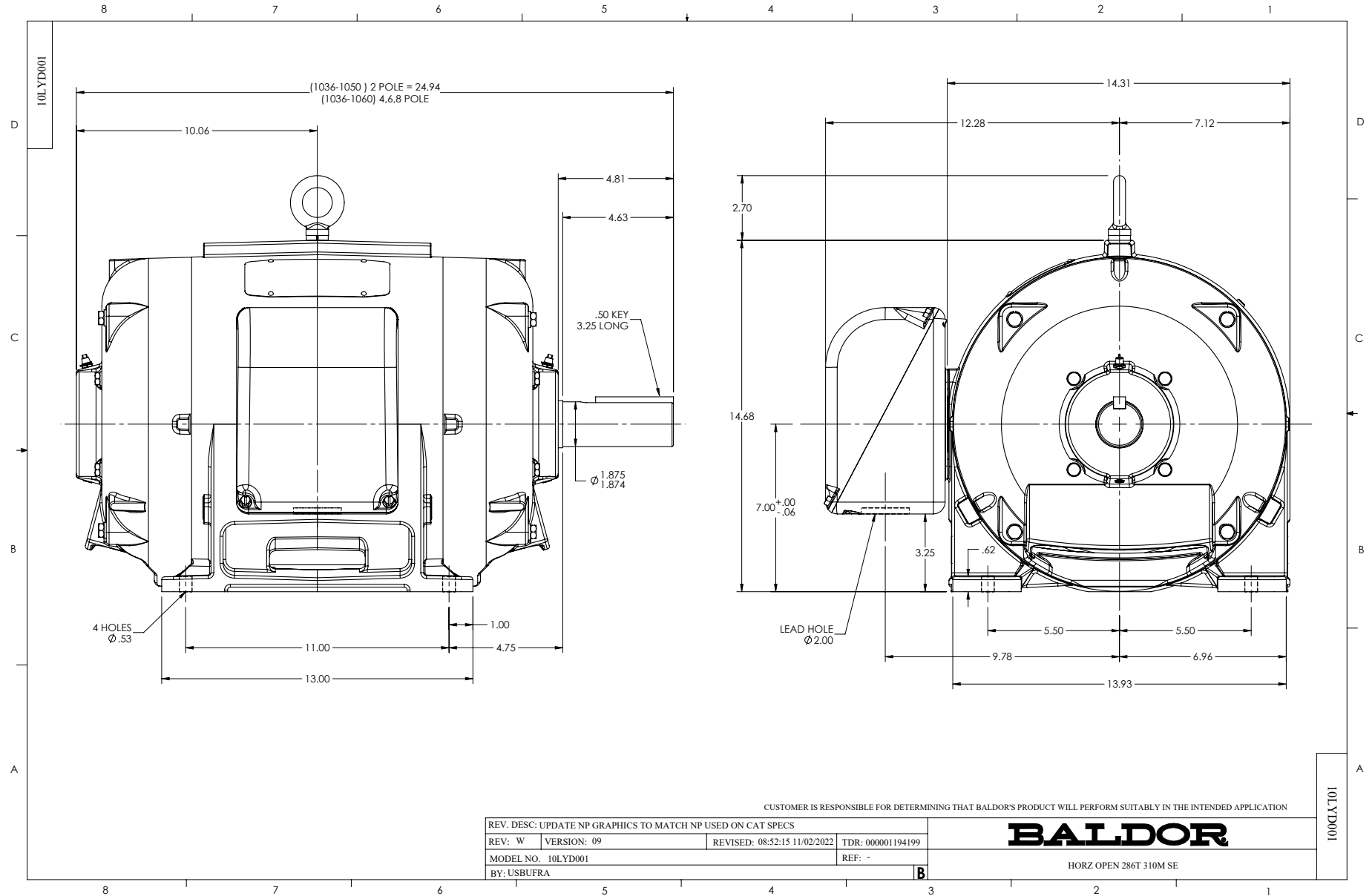
WINDING # 10WGZ653

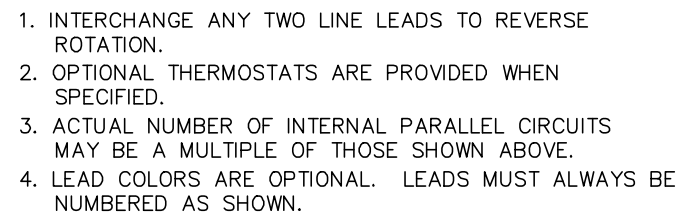
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25 HP 3 PH 60 HZ 1780 RPM 460 V 1050M

TORQUES (LB-FT): PO=264 PU=126 LR=145 LRA=225





SH 1 of 1