ABB BALDOR RELIANCE

Customer information packet

EM2531T-CI

25HP, 1775RPM, 3PH, 60HZ, 286T, 1050M, OPEN, F1
Class - None
Division - Not Applicable

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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	**Starting Current**	225 A
Service Factor (S.F.)			1.15	**No-load Current**	16.04 A
NEMA Nom. Eff.	93.6	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.257 Ω
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

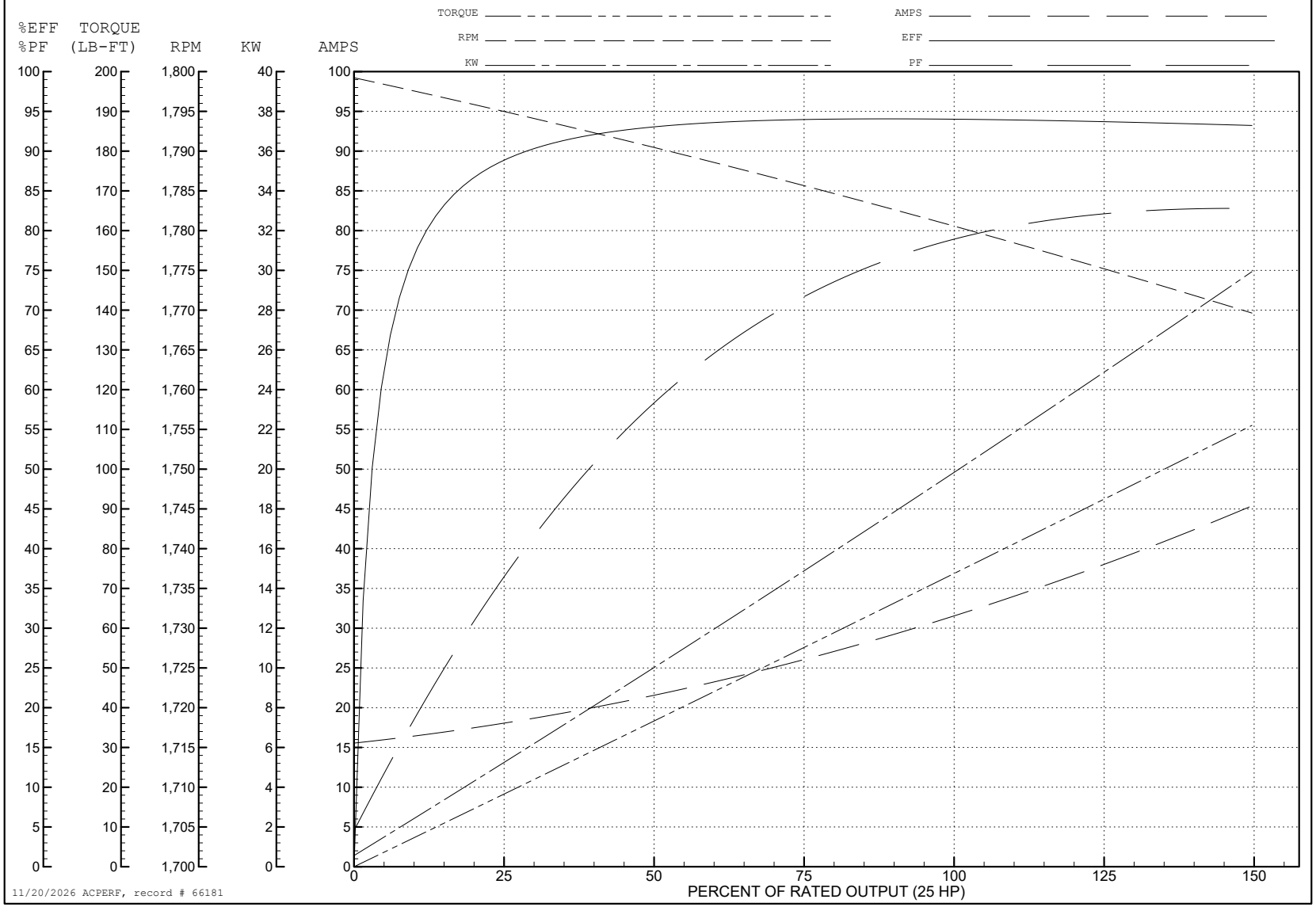
ABB Motors and Mechanical Inc.

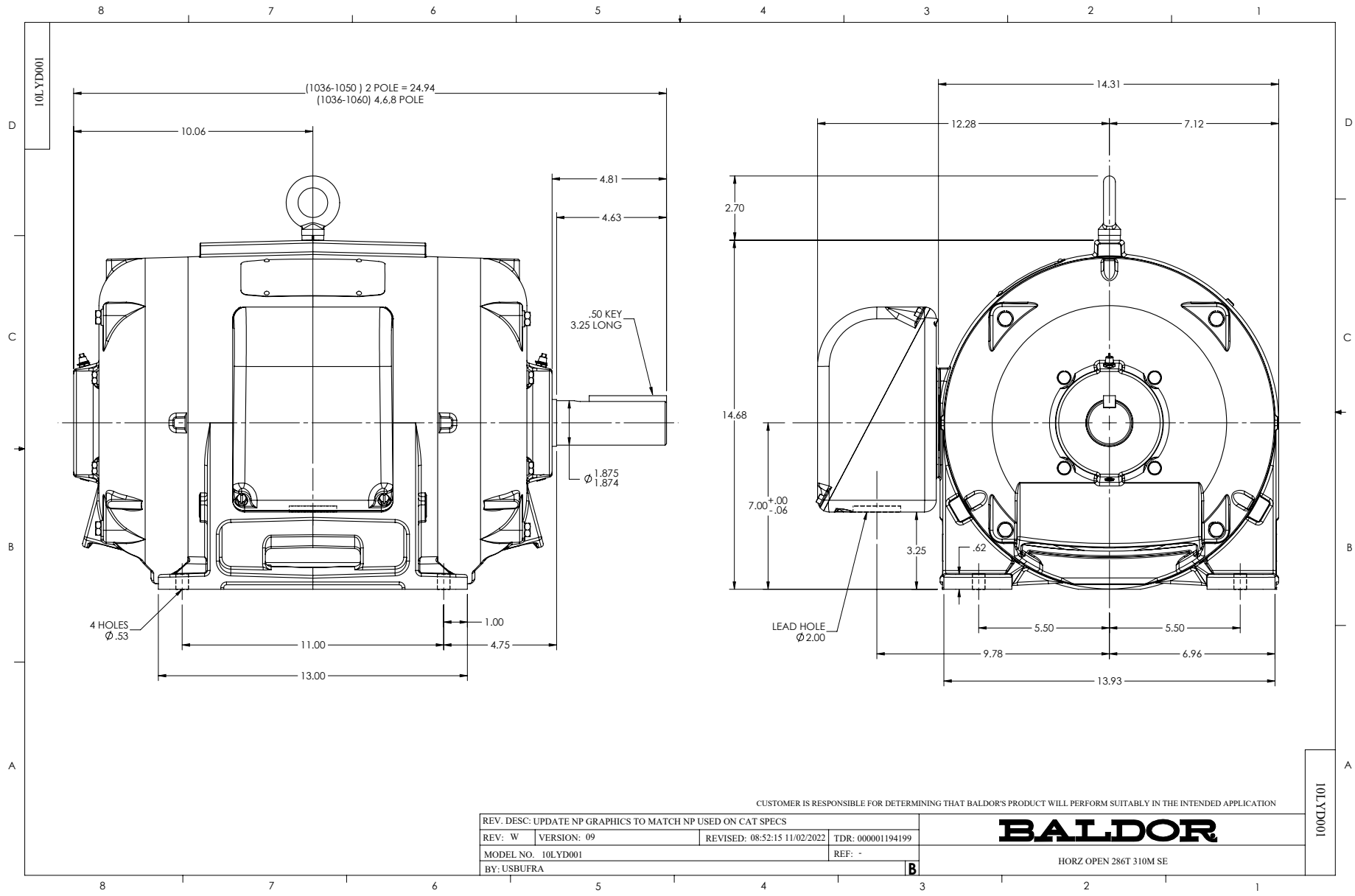
WINDING # 10WGZ653

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

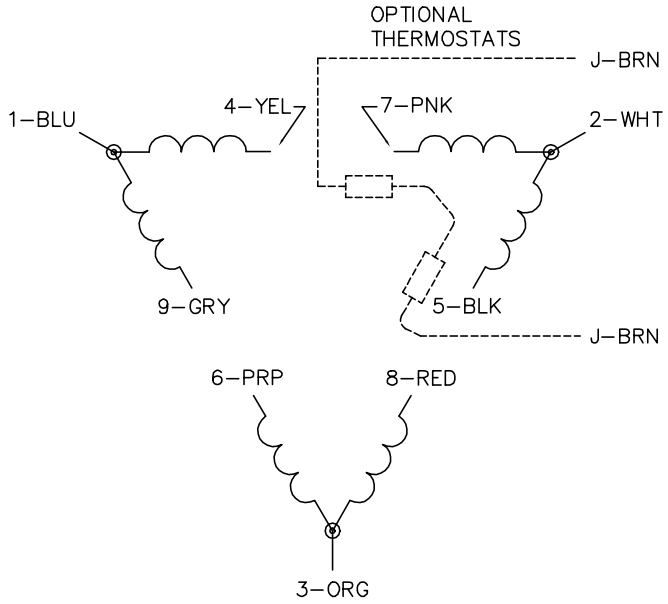
Typical performance - not guaranteed values.

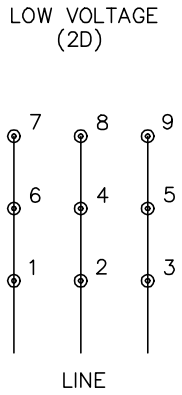
TORQUES(LB-FT): PO=264 PU=126 LR=145 LRA=225

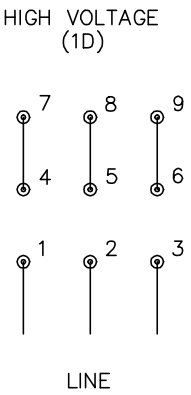



10LYD001
(1036-1050) 2 POLE = 24.94
(1036-1060) 4,6,8 POLE
10.06
4.81
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
4 HOLES
Ø .53
1.00
11.00
4.75
13.00
14.31
12.28
7.12
2.70
14.68
7.00 +.00 -.06
3.25
.62
LEAD HOLE
Ø 2.00
5.50
5.50
9.78
6.96
13.93
CUSTOMER IS responsible FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: W
VERSION: 09
REVISED: 08:52:15 11/02/2022
TDR: 000001194199
MODEL NO. 10LYD001
REF: -
BY: USBUFRA
B
BALDOR
HORZ OPEN 286T 310M SE
10LYD001

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: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1