ABB BALDOR RELIANCE

Customer information packet

10E154Y51G1

25HP, 1760RPM, 3PH, 60HZ, 284T, 1044M, TEFC, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	284T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	480.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	AUXILLARY BOX
Auxiliary Box Lead Termination	Flying Leads
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	29.000 A @ 480.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	29.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	S
Type	AC
Mech. spec.	10E154
Base	
Status	INA/A
Elec. spec.	10WGY051
Layout	10LYE154
Eff. date	07-05-2020
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	01-01-0001

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1044M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.56 IN
Power Factor	85
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP1258								
CAT.NO.								
SPEC.	10E154Y51G1							
HP	25							
VOLTS	480							
AMP	29							
RPM	1760							
FRAME	284T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	B	**CL**	F	
NEMA-NOM-EFF	91	**PF**	85					
RATING	40C AMB-CONT							
CC	010A							
DE	6311	**ODE**	6309					
ENCL	TEFC	**SN**						

NP0090	
FRONT	6309
PULLEY	6311
LUBRICATE WITH	CHEVRON SRI-2
GREASE	POLYREX EM

AC Induction Motor Performance Data
Record # 2814
Typical performance - not guaranteed values

Winding: 10WGY051-R005	**Type:** 1044M	**Enclosure:** TEFC

Nameplate Data				**480 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			25	**Full Load Torque**	75 LB-FT
Volts			480	**Start Configuration**	direct on line
Full Load Amps			29	**Breakdown Torque**	230 LB-FT
R.P.M.			1760	**Pull-up Torque**	135 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	172 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	190 A
Service Factor (S.F.)			1.15	**No-load Current**	11.8 A
NEMA Nom. Eff.	91	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.364 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	82°C
				Locked-rotor Power Factor	36
				Rotor inertia	3.51 LB-FT2

Load Characteristics 480 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	73	81	85	85	85	85
Efficiency	85.5	90.6	91.7	91.6	90.9	89.9	91.2
Speed	1793	1786	1779	1771	1761	1751	1765
Line amperes	14.3	18.4	23.6	29	36.2	43.5	33.76

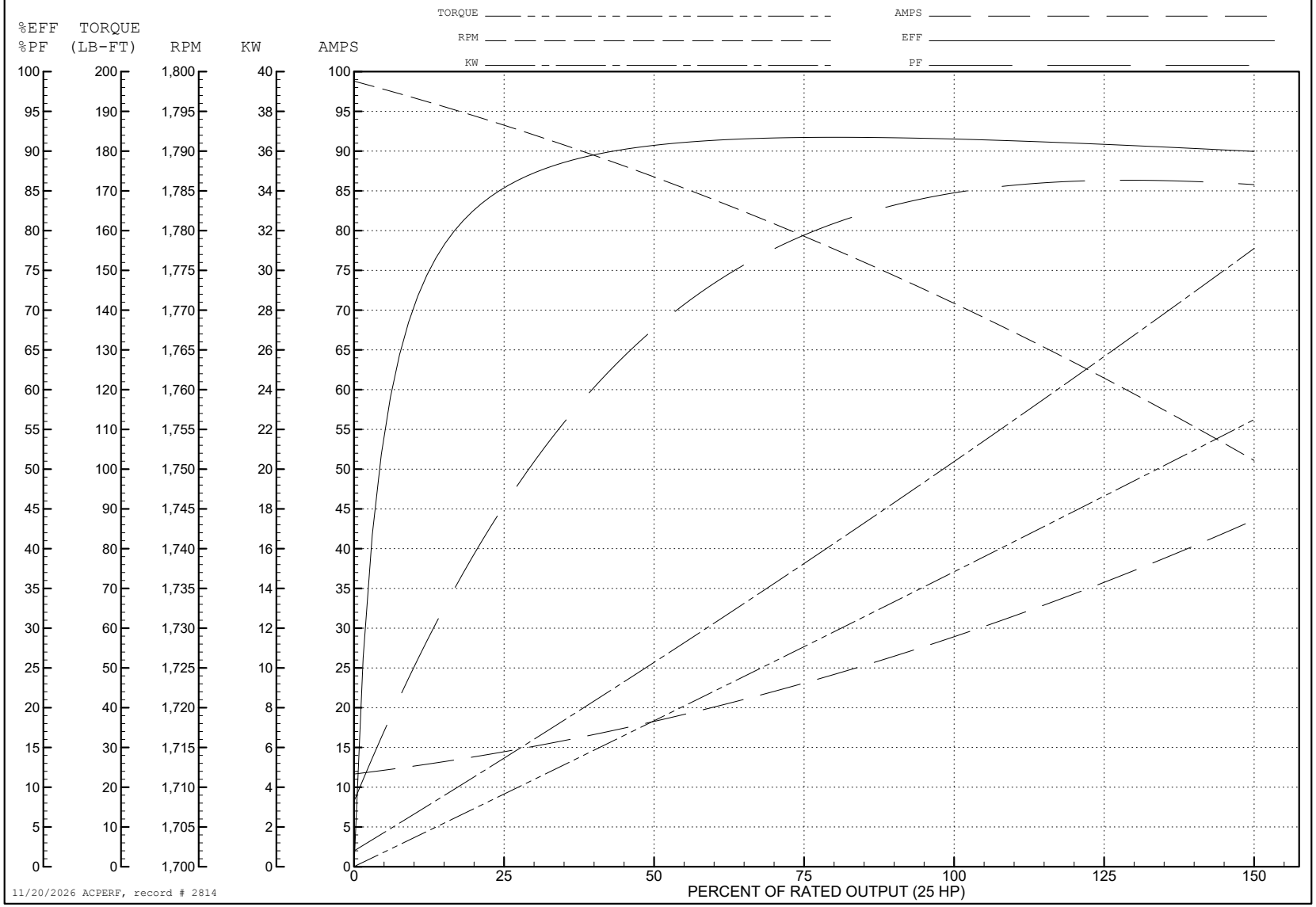
ABB Motors and Mechanical Inc.

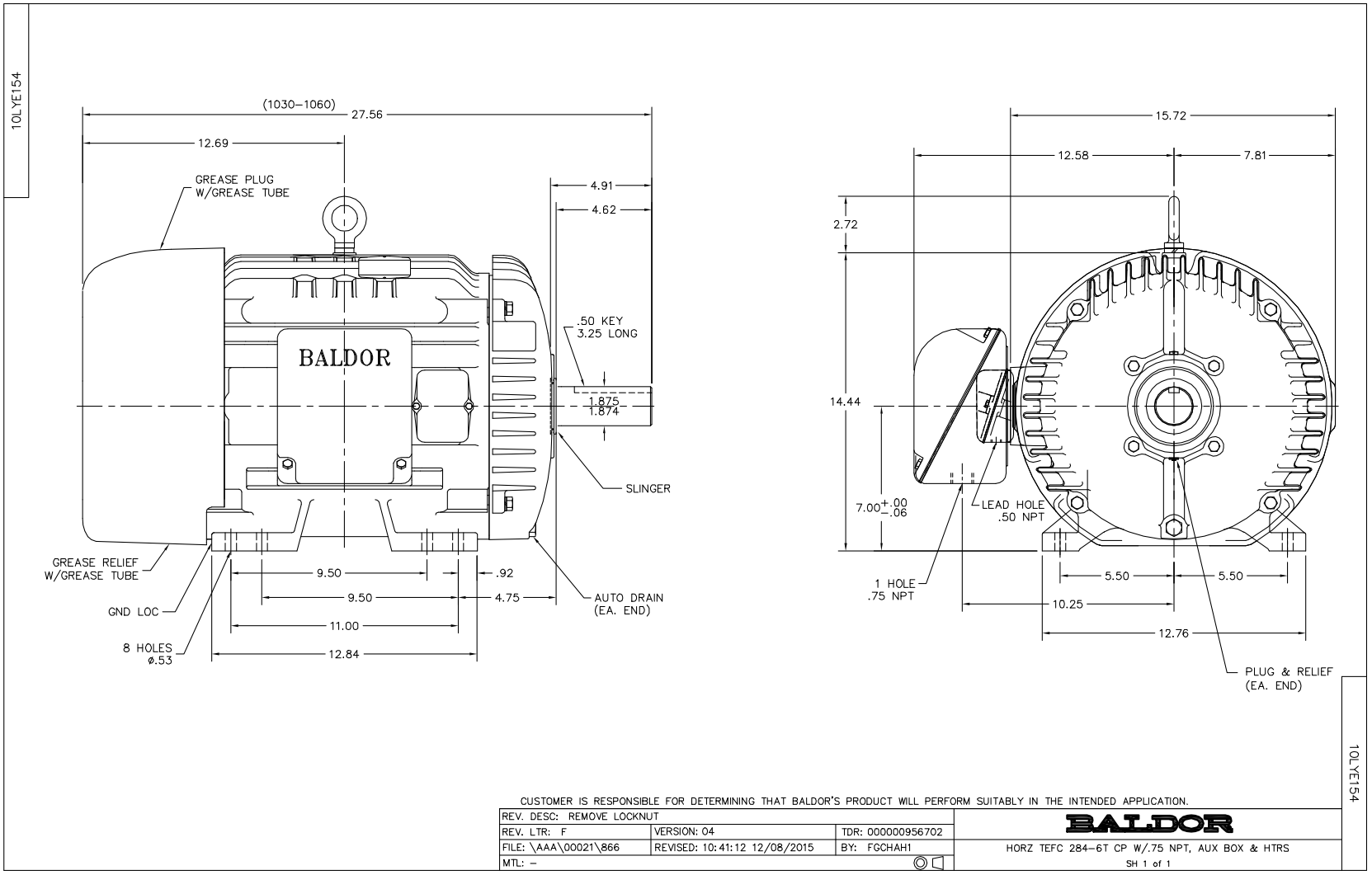
WINDING # 10WGY051

25 HP 3 PH 60 HZ 1760 RPM 480 V 1044M

Typical performance - not guaranteed values.

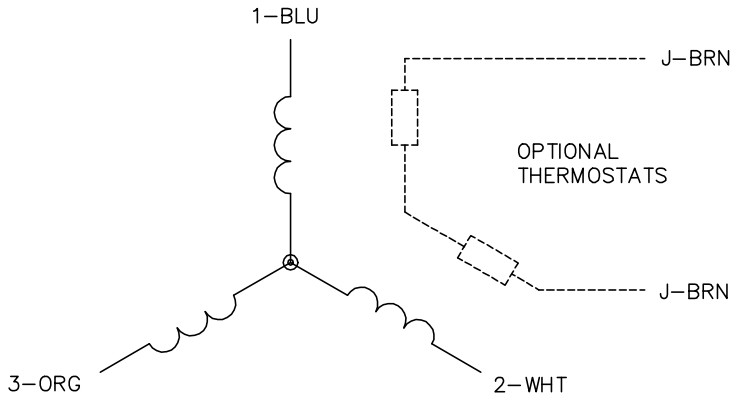
TORQUES(LB-FT): PO=230 PU=135 LR=172 LRA=190

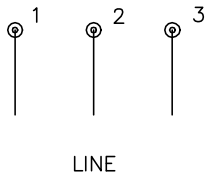



10LYE154
(1030–1060)
27.56
12.69
GREASE PLUG
W/GREASE TUBE
4.91
4.62
.50 KEY
3.25 LONG
BALDOR
1.875
1.874
SLINGER
GREASE RELIEF
W/GREASE TUBE
9.50
.92
9.50
4.75
AUTO DRAIN
(EA. END)
GND LOC
11.00
8 HOLES
ø.53
12.84
15.72
12.58
7.81
2.72
14.44
7.00 +.00 −.06
LEAD HOLE
.50 NPT
1 HOLE
.75 NPT
5.50
5.50
10.25
12.76
PLUG & RELIEF
(EA. END)
10LYE154
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REMOVE LOCKNUT
REV. LTR: F
VERSION: 04
TDR: 000000956702
FILE: \AAA\00021\866
REVISED: 10:41:12 12/08/2015
BY: FGCHAH1
MTL: –
BALDOR
HORZ TEFC 284–6T CP W/.75 NPT, AUX BOX & HTRS
SH 1 of 1

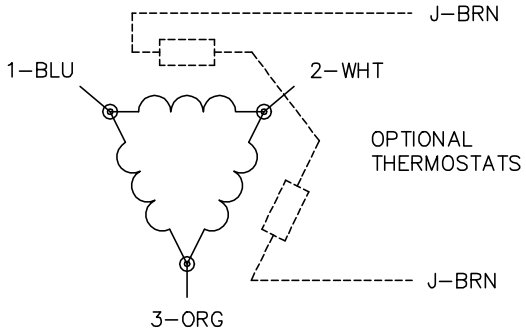
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1