ABB BALDOR RELIANCE

Customer information packet

JMFSWDM23994T-E

15HP, 3540RPM, 3PH, 60HZ, 254JM, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254JM
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	POLYREX SHC102 EM (-20F +356F)
Blower	None
Current @ Voltage	34.000 A @ 230.0 V
	17.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	17.0 a
Insulation Class	H

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	39WGY436
Layout	39LYE754
Eff. date	04-12-2022
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	12-18-2019

Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3952M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.68 IN
Power Factor	90
Product Family	WD All SS Encapsulated
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 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

NP1953L01								
CAT.NO.	JMFSWDM23994T-E							
SPEC.	39-0000-0237							
HP	15							
VOLTS	230/460							
AMPS	34/17							
R.P.M.	3540							
FRAME	254JM		**HZ**	60		**PH**	3	
SER.F.	1.00	**CODE**	K	**DES.**	A	**CLASS**	H	
NEMA NOM. EFF.	91		**P.F.**	90				
RATING	40C AMB-CONT							
CC	010A		**USABLE AT 208V**	N/A				
DE	6309		**ODE**	6309				
ENCL	TEFC	**SN**						
	2:1 CT/10:1 VT							

AC Induction Motor Performance Data
Record # 80274
Typical performance - not guaranteed values

Winding: 39WGY436-R001	**Type:** 3952M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.36 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			34/17	**Breakdown Torque**	110 LB-FT
R.P.M.			3540	**Pull-up Torque**	44.53 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.82 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	153 A
Service Factor (S.F.)			1	**No-load Current**	4.89 A
NEMA Nom. Eff.	91	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.447 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
				Locked-rotor Power Factor	27.2
				Rotor inertia	1.33 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	65	82	88	91	92	92
Efficiency	83.8	89.5	91.1	91.3	91	90.3
Speed	3584	3569	3553	3536	3518	3499
Line amperes	6.63	9.59	13.23	17	21.13	25.36

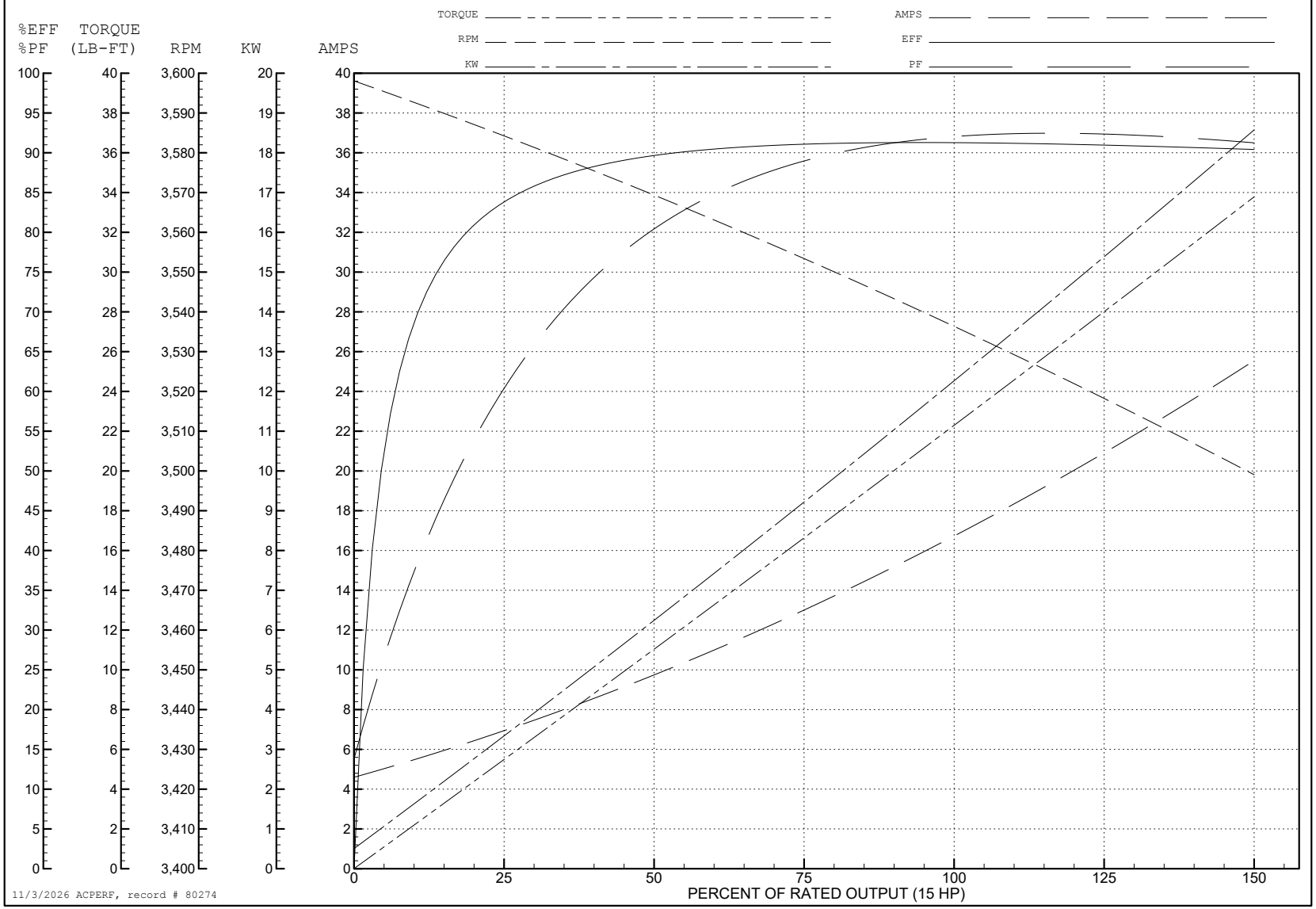
ABB Motors and Mechanical Inc.

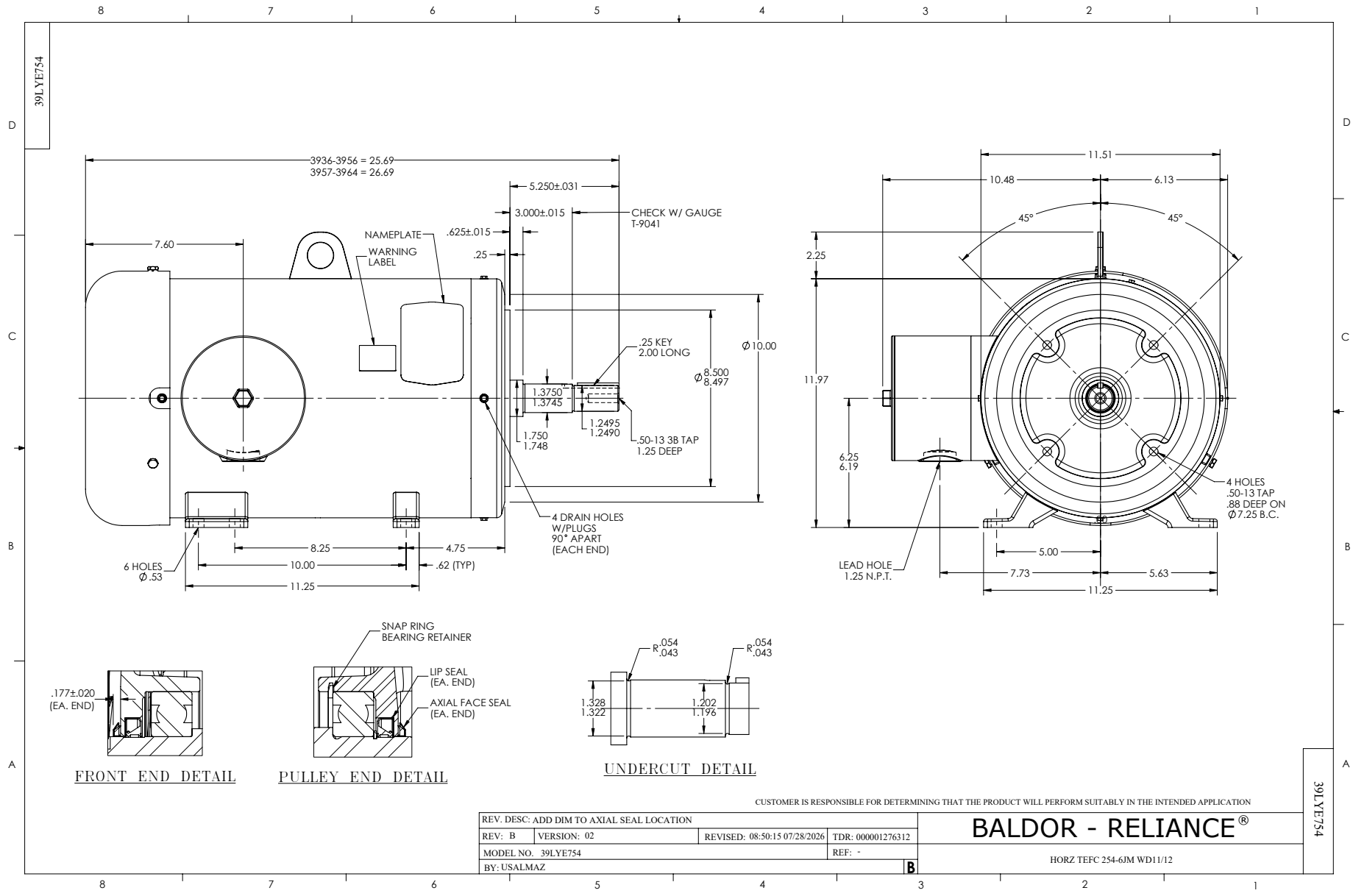
WINDING # 39WGY436

15 HP 3 PH 60 HZ 3540 RPM 460 V 3952M

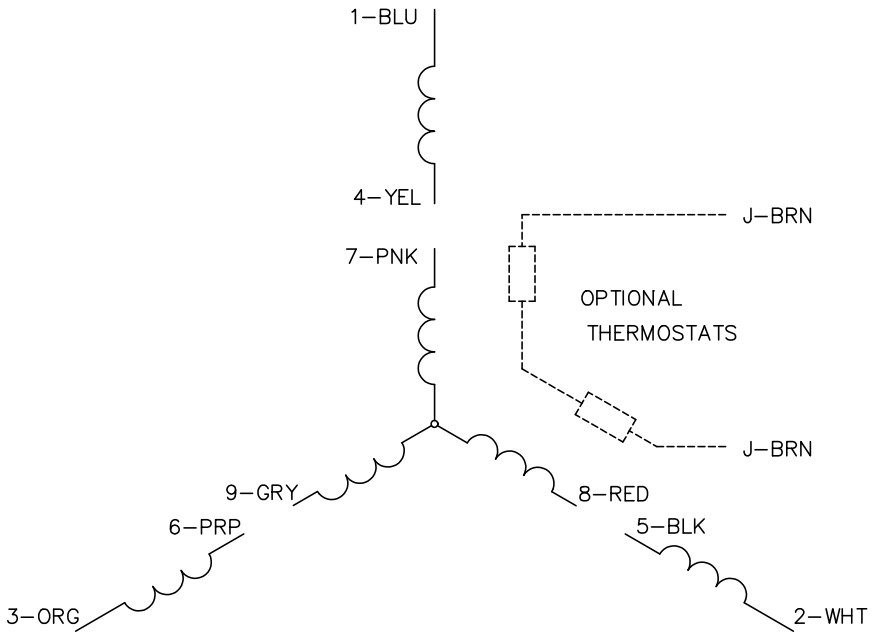
Typical performance - not guaranteed values.

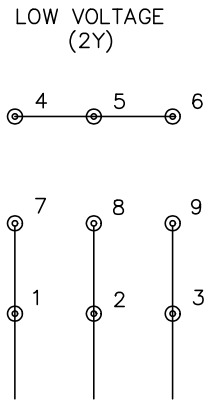
TORQUES(LB-FT): PO=110 PU=44.53 LR=53.82 LRA=153

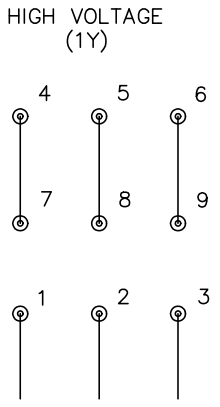



39LYE754
3936-3956 = 25.69
3957-3964 = 26.69
5.250±.031
3.000±.015
CHECK W/ GAUGE T-9041
NAMEPLATE
WARNING LABEL
.625±.015
.25
7.60
.25 KEY 2.00 LONG
Ø10.00
Ø8.500 8.497
1.3750 1.3745
1.2495 1.2490
1.750 1.748
.50-13 3B TAP 1.25 DEEP
4 DRAIN HOLES W/PLUGS 90° APART (EACH END)
6 HOLES Ø.53
8.25
4.75
10.00
.62 (TYP)
11.25
11.51
10.48
6.13
45°
45°
2.25
11.97
6.25 6.19
4 HOLES .50-13 TAP .88 DEEP ON Ø7.25 B.C.
LEAD HOLE 1.25 N.P.T.
5.00
7.73
5.63
11.25
SNAP RING BEARING RETAINER
LIP SEAL (EA. END)
AXIAL FACE SEAL (EA. END)
.177±.020 (EA. END)
R.054 .043
R.054 .043
1.328 1.322
1.202 1.196
FRONT END DETAIL
PULLEY END DETAIL
UNDERCUT DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: B VERSION: 02 REVISED: 08:50:15 07/28/2026 TDR: 000001276312
MODEL NO. 39LYE754 REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ TEFC 254-6JM WD11/12
39LYE754

CD0005







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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS