

ABB BALDOR RELIANCE III

Customer information packet

JMFSWDM23994T-E

15HP, 3540RPM, 3PH, 60HZ, 254JM, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C		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

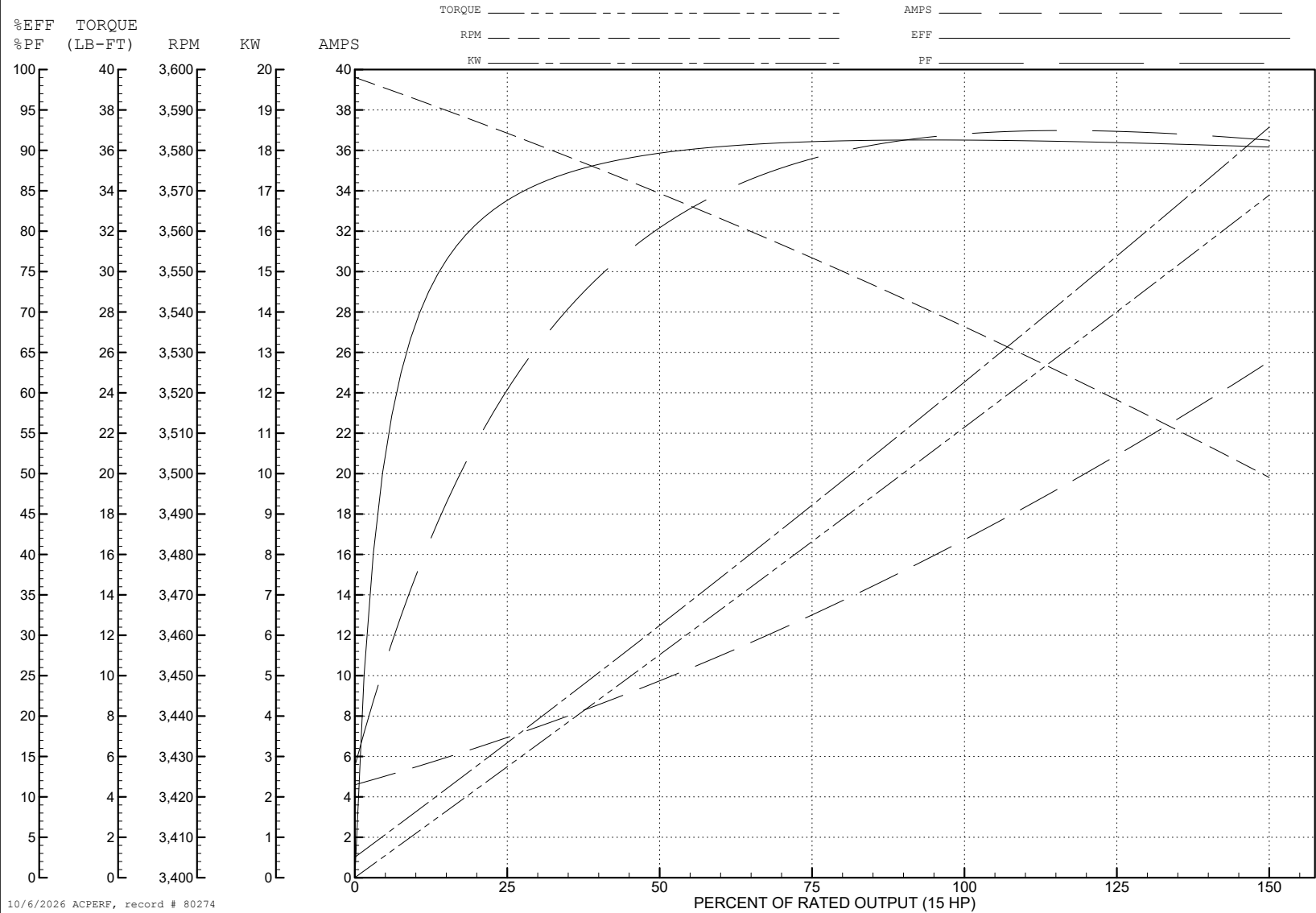
ABB Motors and Mechanical Inc.

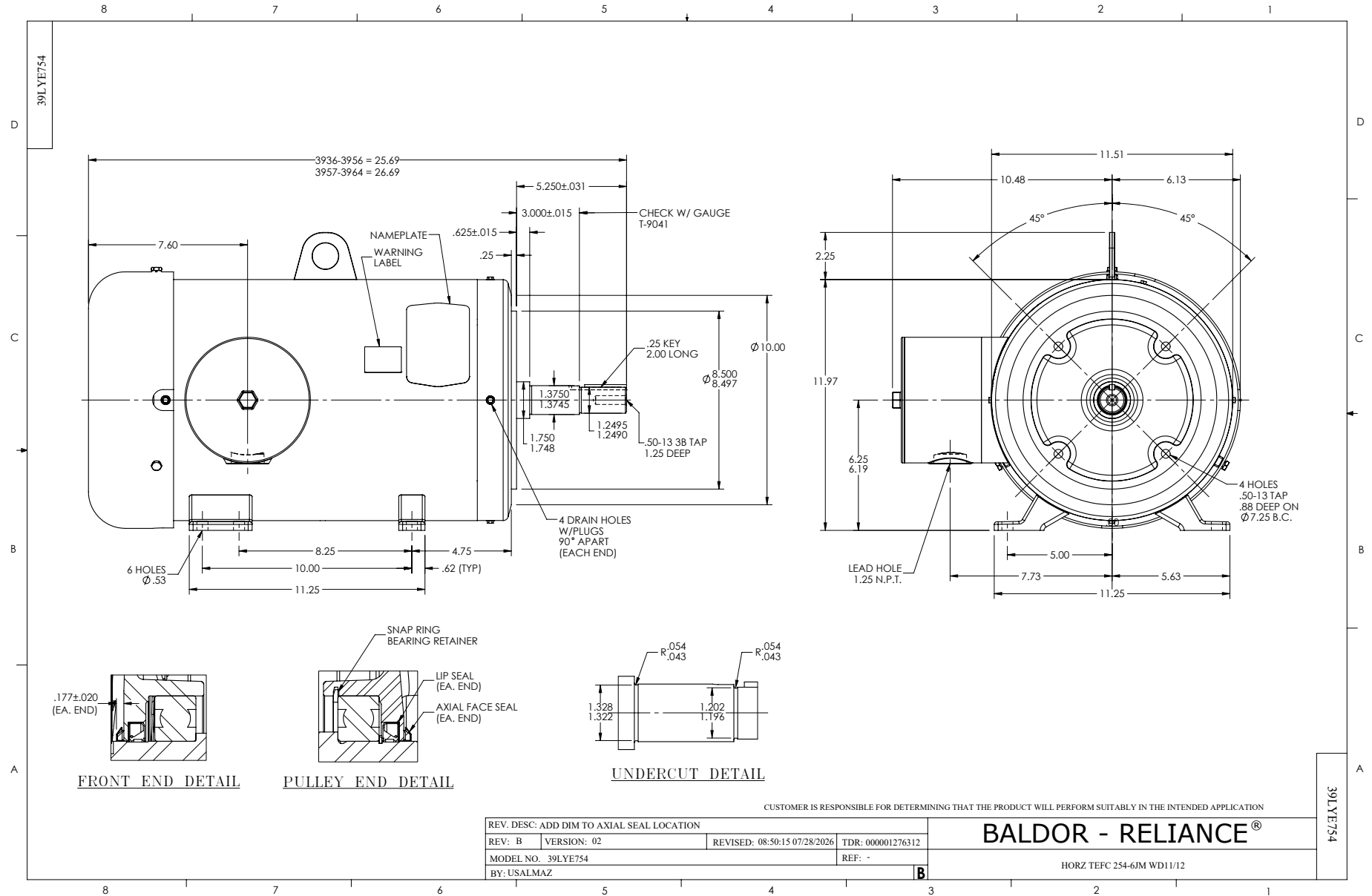
WINDING # 39WGY436

Typical performance - not guaranteed values.

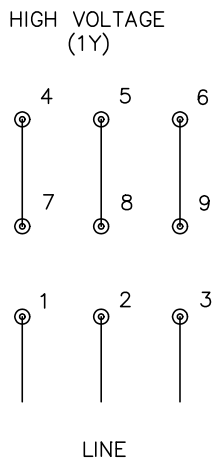
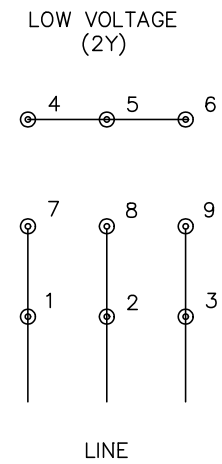
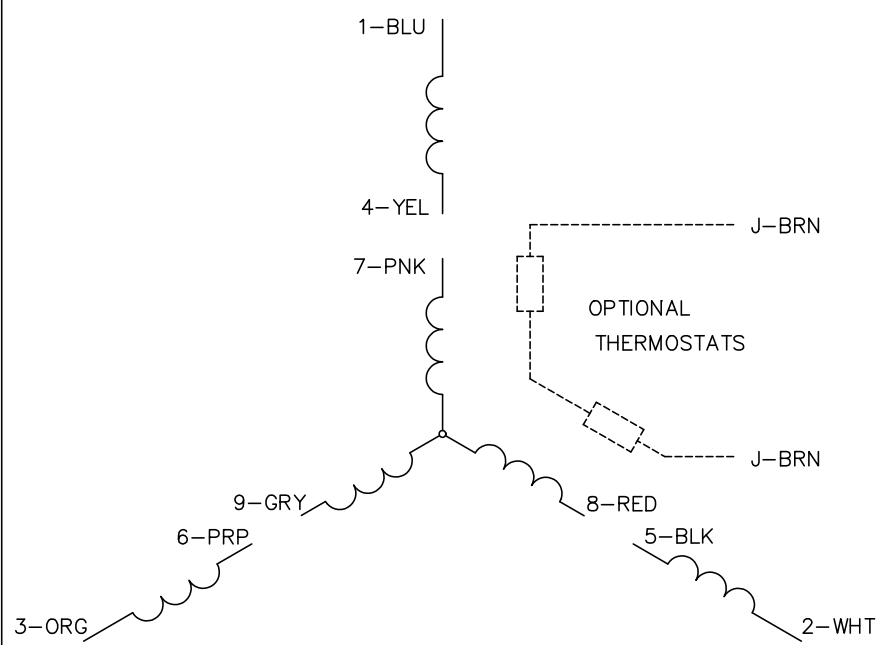
15 HP 3 PH 60 HZ 3540 RPM 460 V 3952M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005