ABB BALDOR RELIANCE

Customer information packet

EWDM22976T

7.5HP, 1180RPM, 3PH, 60HZ, 254T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	UR
	CSA EEV
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	10.700 A @ 460.0 V
	21.400 A @ 230.0 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	10.7 a
Insulation Class	F

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	39WGX429
Layout	39LYS015
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	08-13-2019

Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.57 IN
Power Factor	71
Product Family	Wash Down
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

	NP1669L							
CAT.NO.	EWDM22976T							
SPEC.	39-0000-0188							
HP	7.5							
VOLTS	230/460 20:1 CT/VT							
AMP	21.4/10.7							
RPM	1180							
FRAME	254T	**HZ**	60			**PH**	3	
SER.F.	1.00	**CODE**	J	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	91	**PF**	71					
RATING	40C AMB-CONT							
CC	010A							
DE	6309	**ODE**	6208					
ENCL	TEFC	**SN**						
BLANK	1.15SF ON SINEWAVE							

AC Induction Motor Performance Data
Record # 78164
Typical performance - not guaranteed values

Winding: 39WGX429-R007	**Type:** 3954M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	33.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			21.4/10.7	**Breakdown Torque**	99.5 LB-FT
R.P.M.			1180	**Pull-up Torque**	39.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	58.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	70.1 A
Service Factor (S.F.)			1.15	**No-load Current**	5.52 A
NEMA Nom. Eff.	91	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.895 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	32°C
S.F. Amps				**Temp. Rise @ S.F. Load**	38°C
				Locked-rotor Power Factor	25.8
				Rotor inertia	4.34 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	65	71	74	75	73
Efficiency	84.9	90.6	91.8	91.9	91.4	90.5	91.6
Speed	1196	1192	1188	1183	1178	1173	1180
Line amperes	6.25	7.28	8.82	10.72	12.91	15.5	12

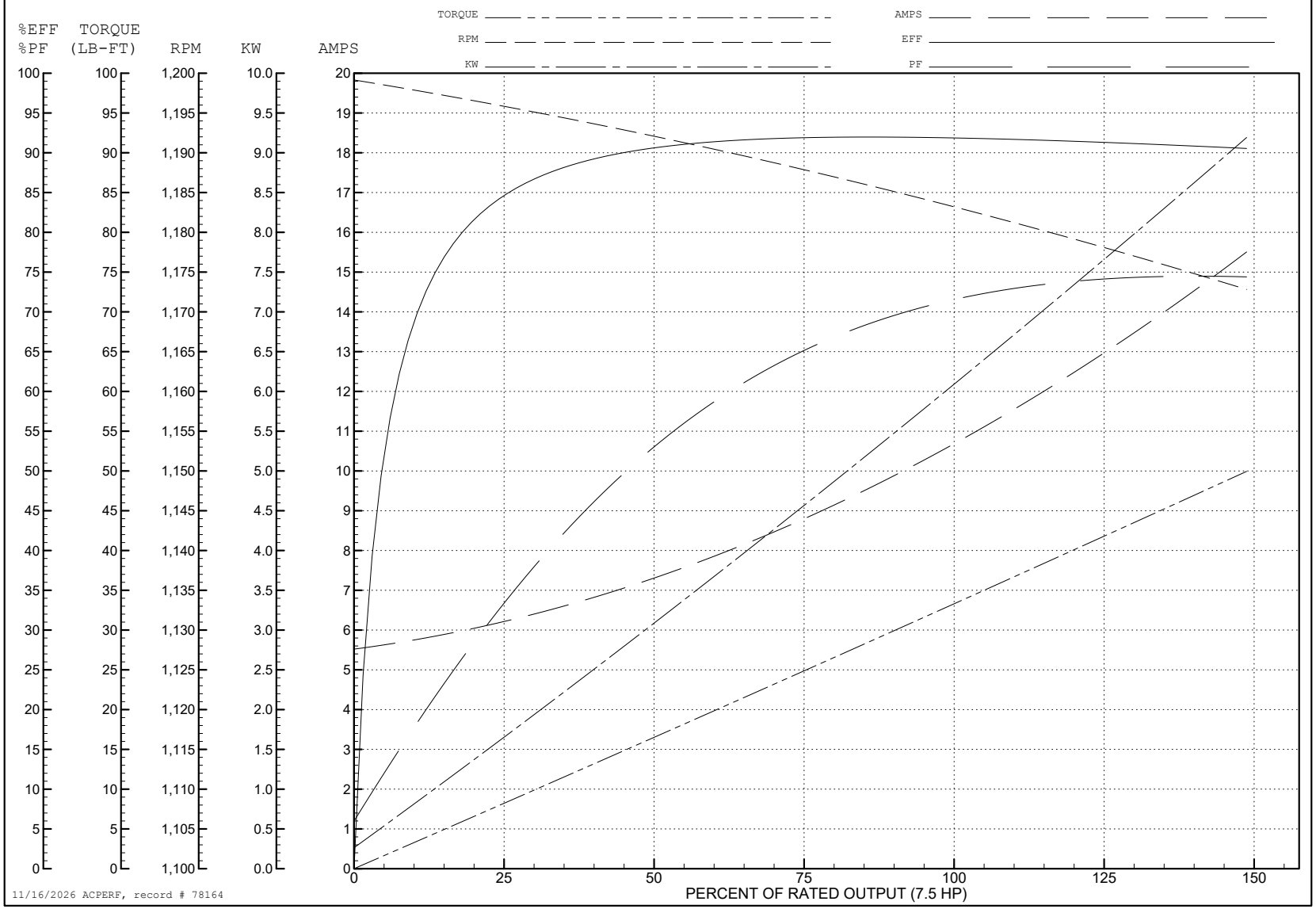
ABB Motors and Mechanical Inc.

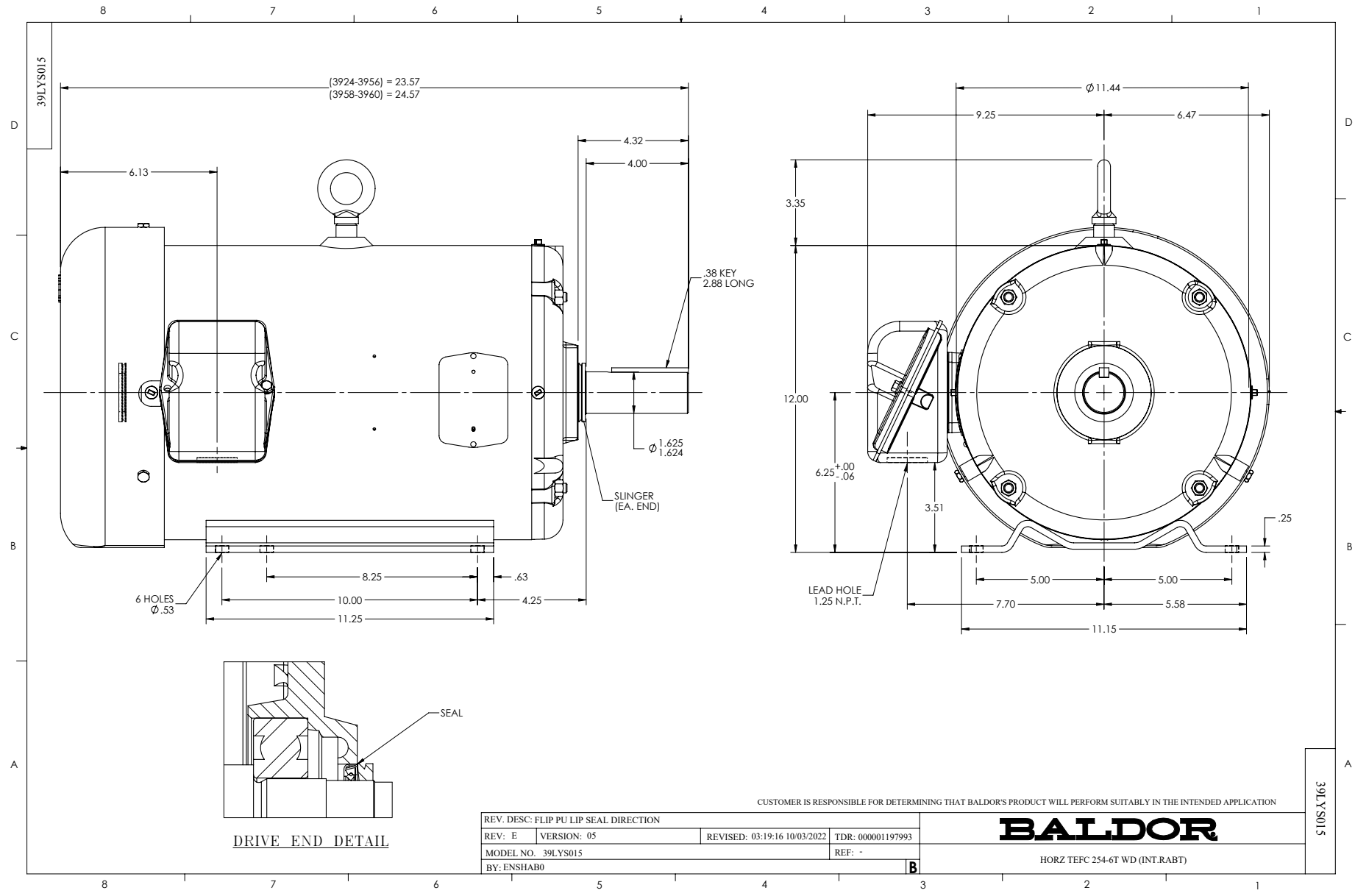
WINDING # 39WGX429

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 3954M

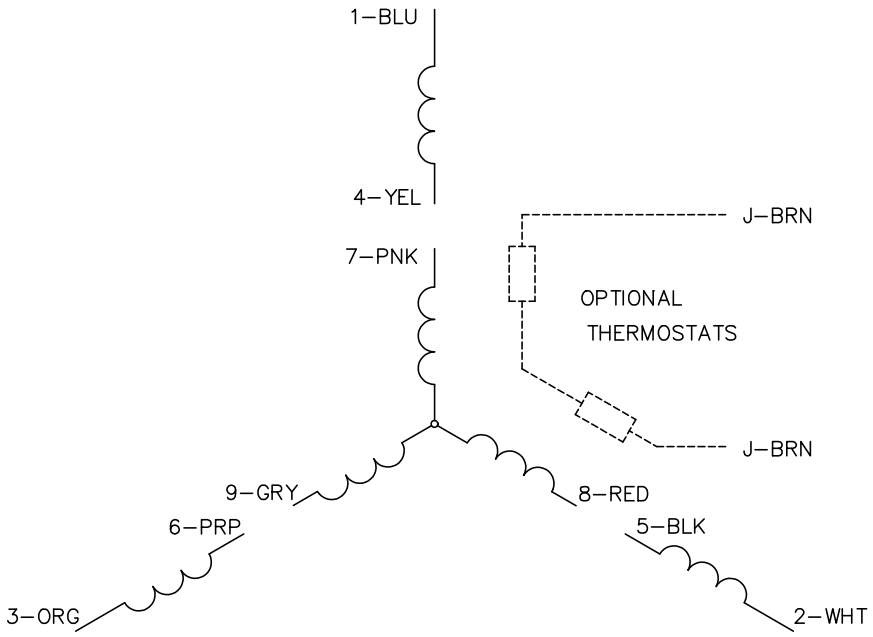
Typical performance - not guaranteed values.

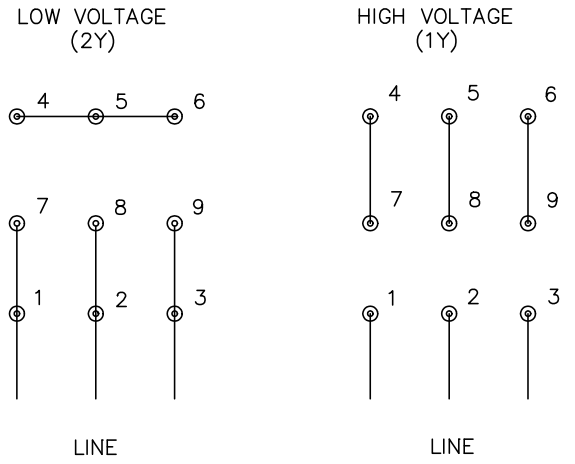
TORQUES(LB-FT): PO=99.5 PU=39.7 LR=58.4 LRA=70.1




39LYS015
(3924-3956) = 23.57
(3958-3960) = 24.57
6.13
4.32
4.00
.38 KEY
2.88 LONG
Ø1.625
1.624
SLINGER
(EA. END)
6 HOLES
Ø.53
8.25
.63
10.00
4.25
11.25
Ø11.44
9.25
6.47
3.35
12.00
6.25 +.00 -.06
3.51
.25
LEAD HOLE
1.25 N.P.T.
5.00
5.00
7.70
5.58
11.15
SEAL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FLIP PU LIP SEAL DIRECTION
REV: E
VERSION: 05
REVISED: 03:19:16 10/03/2022
TDR: 000001197993
MODEL NO. 39LYS015
REF: -
BY: ENSHAB0
B
BALDOR
HORZ TEFC 254-6T WD (INT.RABT)
39LYS015

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