ABB BALDOR RELIANCE

Customer information packet

IDWNM22938T

10HP, 1765RPM, 3PH, 60HZ, 254TC, 3956M, TENV
Class -
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	254TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 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	CSA
	UR
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	12.000 A @ 460.0 V
	24.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	H

Part Detail

Revision	AN
Type	AC
Mech. spec.	39R099
Base	
Status	PRD/A
Elec. spec.	39WGW632
Layout	39LYR099
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	01-01-0001

Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.92 IN
Power Factor	85
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1162L									
CAT NO	IDWNM22938T								
SPEC.	39R099W632G1								
FRAME	254TC			**HP**	10 TE				
VOLTS	230/460								
MAG CUR	8.8/4.4				**FLA**	24/12			
RPM	1765			**RPM MAX**	5000				
HZ	60	**PH**	3		**CLASS**	H			
SER.F.	1.00	**DES**	B			**SL HZ**	1.22		
NEMA-NOM-EFF	91.7		**WK2**	2.44					
BLWR V		**PH**		**HZ**		**A**			
RATING	40C AMB-CONT								
DE BRG	6309			**ODE BRG**	6208				
CC	010A	**SN**							

AC Induction Motor Performance Data
Record # 12831
Typical performance - not guaranteed values

Winding: 39WGW632-R001	**Type:** 3956M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)			10
Volts			230/460
Full Load Amps			24/12
R.P.M.			1765
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	85
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	30 LB-FT
Start Configuration	direct on line
Breakdown Torque	114 LB-FT
Pull-up Torque	41.5 LB-FT
Locked-rotor Torque	58 LB-FT
Starting Current	87 A
No-load Current	4.4 A
Line-line Res. @ 25ºC	0.744 Ω
Temp. Rise @ Rated Load	89°C
Locked-rotor Power Factor	31.9
Rotor inertia	2.45 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	72	81	85	86	87
Efficiency	87.7	91.7	92.4	92	91.2	90.1
Speed	1791	1783	1774	1764	1753	1741
Line amperes	5.3	7.2	9.5	12	14.9	17.9

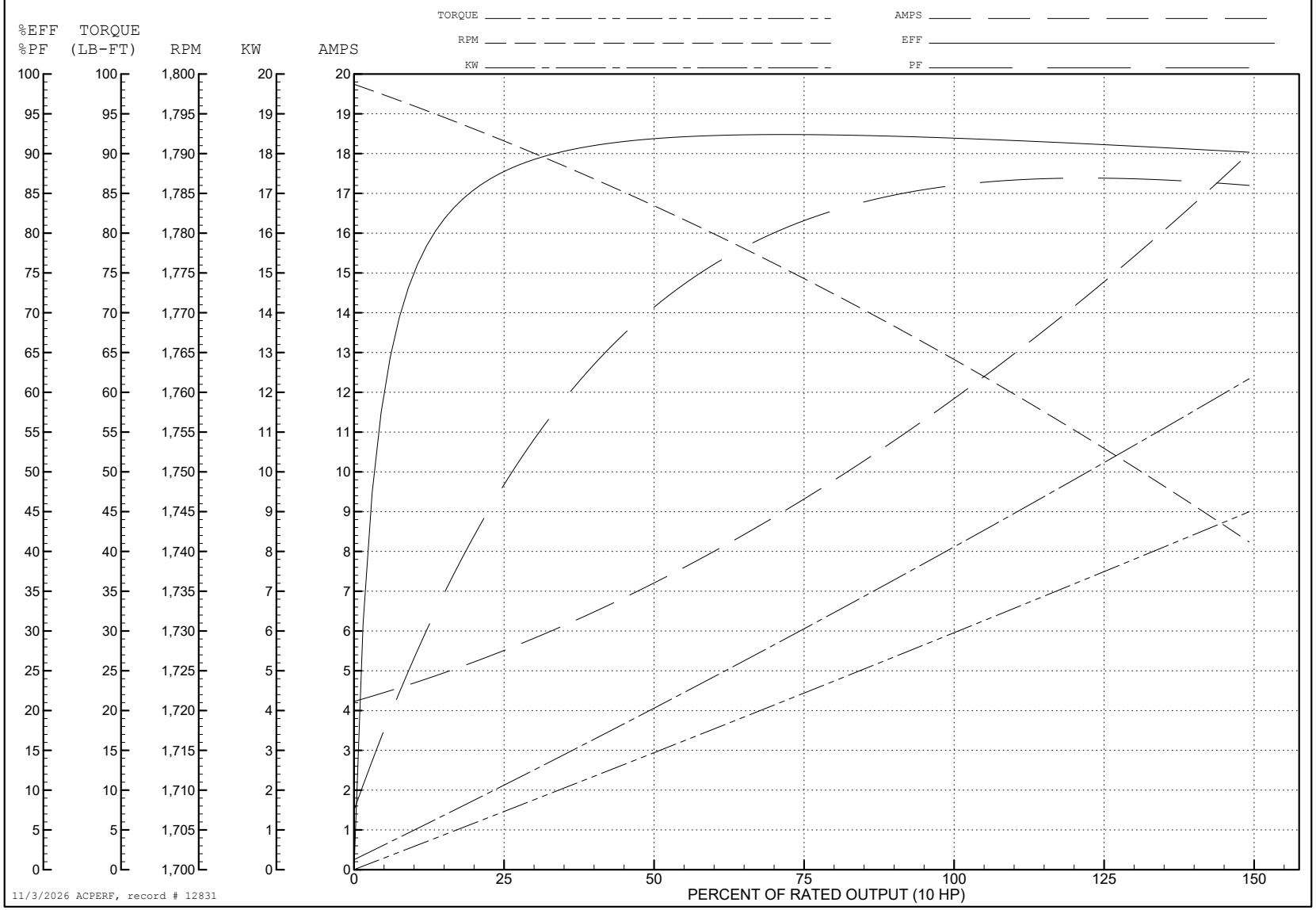
ABB Motors and Mechanical Inc.

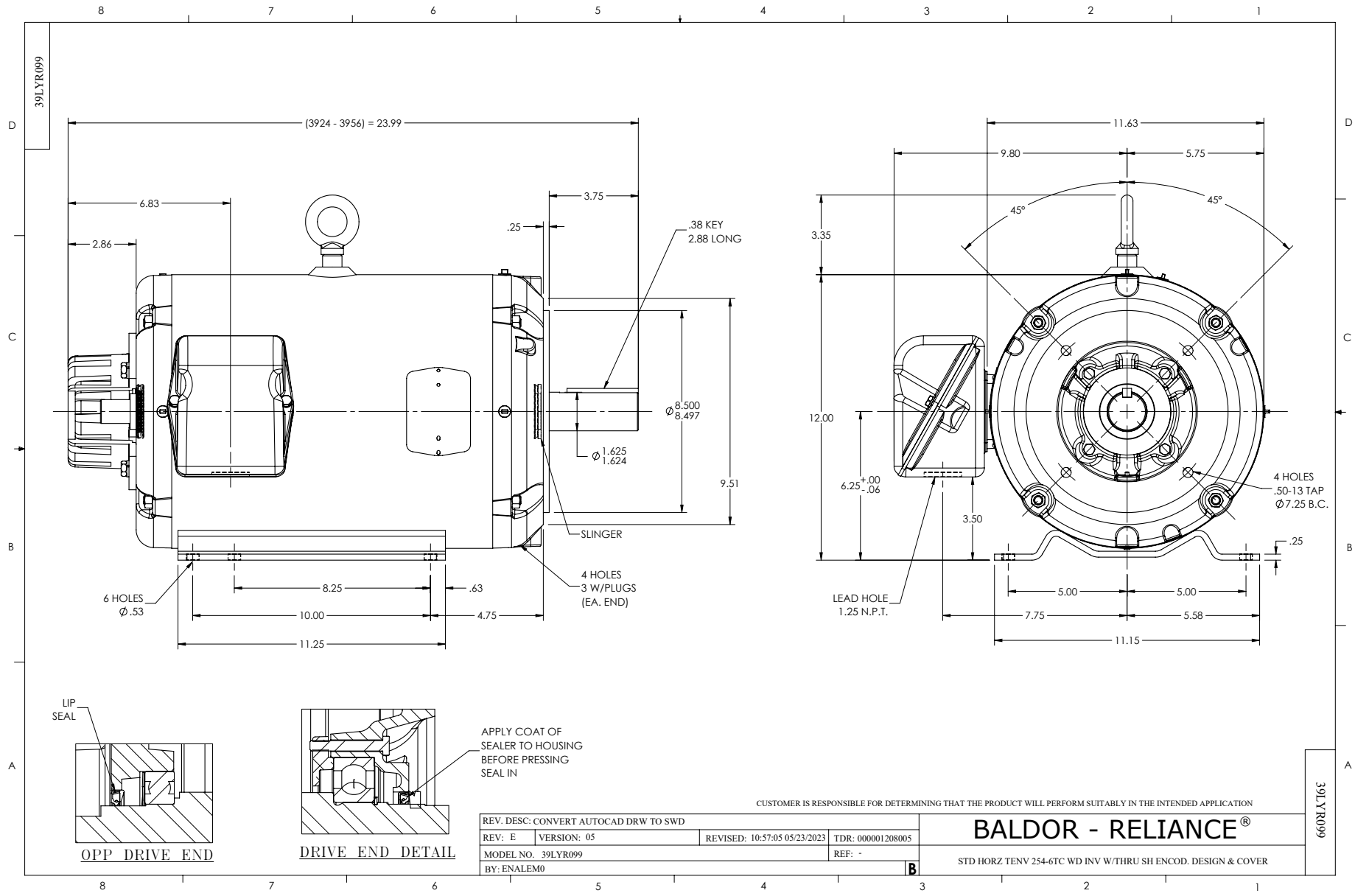
WINDING # 39WGW632

10 HP 3 PH 60 HZ 1765 RPM 460 V 3956M

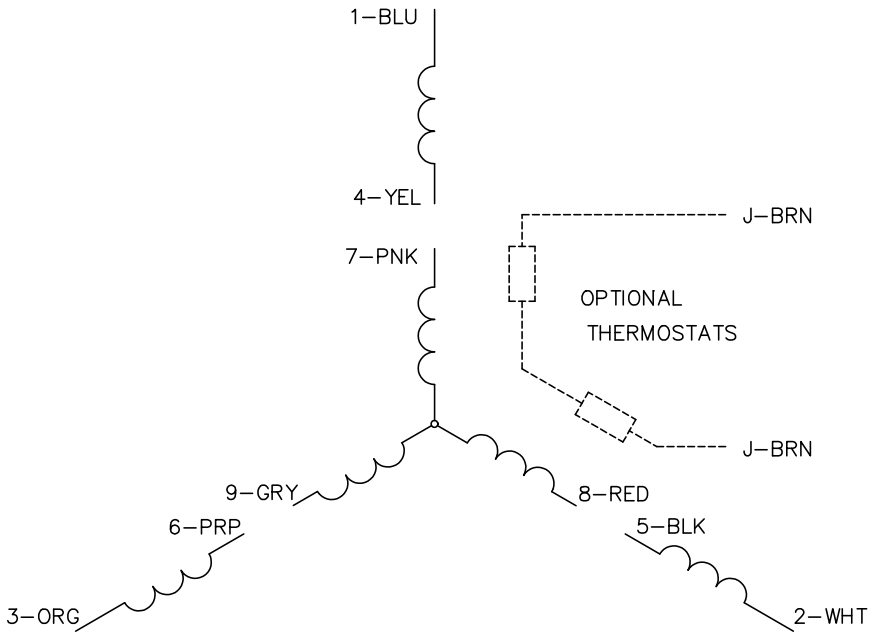
Typical performance - not guaranteed values.

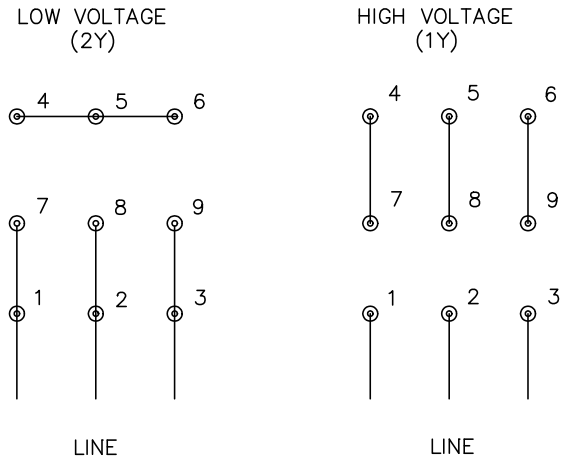
TORQUES(LB-FT): PO=114 PU=41.5 LR=58 LRA=87




39LYR099
(3924 - 3956) = 23.99
6.83
2.86
3.75
.25
.38 KEY
2.88 LONG
Ø 8.500
8.497
Ø 1.625
1.624
9.51
SLINGER
4 HOLES
3 W/PLUGS
(EA. END)
6 HOLES
Ø .53
8.25
.63
10.00
4.75
11.25
11.63
9.80
5.75
45°
45°
3.35
12.00
6.25 +.00 -.06
3.50
4 HOLES
.50-13 TAP
Ø 7.25 B.C.
.25
LEAD HOLE
1.25 N.P.T.
5.00
5.00
7.75
5.58
11.15
LIP
SEAL
OPP DRIVE END
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: E
VERSION: 05
REVISED: 10:57:05 05/23/2023
TDR: 000001208005
MODEL NO. 39LYR099
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ TENV 254-6TC WD INV W/THRU SH ENCOD. DESIGN & COVER
39LYR099

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