ABB BALDOR RELIANCE

Customer information packet

EWDM2280T

52M 8P TEFC HOR 254T SP9 FT SE
Class - None
Division - Not Applicable

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11/15/2026 1:31:56 AM

Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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	8.600 A @ 460.0 V
	17.800 A @ 208.0 V
	17.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	09E440
Base	
Status	PRD/A
Elec. spec.	09WGT414
Layout	09LYE440
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	08
Leads	9#12
Proprietary	False
Created date	12-20-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	8.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0952M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	23.25 IN
Power Factor	61
Product Family	Washdown Features
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	880 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.	EWDM2280T								
SPEC.	09E440T414								
HP	5								
VOLTS	230/460								
AMP	17.2/8.6								
RPM	880								
FRAME	254T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	86.5	**PF**	61						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6208						
ENCL	TEFC	**SN**							
BLANK	10:1 CT/VT								

AC Induction Motor Performance Data
Record # 62448
Typical performance - not guaranteed values

Winding: 09WGT414-R001	**Type:** 0952M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	29.55 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			17.2/8.6	**Breakdown Torque**	82 LB-FT
R.P.M.			880	**Pull-up Torque**	46.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	72.2 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	53.5 A
Service Factor (S.F.)			1.15	**No-load Current**	5.53 A
NEMA Nom. Eff.	86.5	**Power Factor**	61	**Line-line Res. @ 25ºC**	1.6349 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	42°C
S.F. Amps			19/9.5	**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	27.3
				Rotor inertia	4.19 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	42	54	61	66	70	64
Efficiency	78.6	86	87.9	88.2	87.6	86.6	87.8
Speed	896.5	893.4	889.8	886	882.1	877.6	884
Line amperes	5.8	6.45	7.42	8.62	10	11.7	9.45

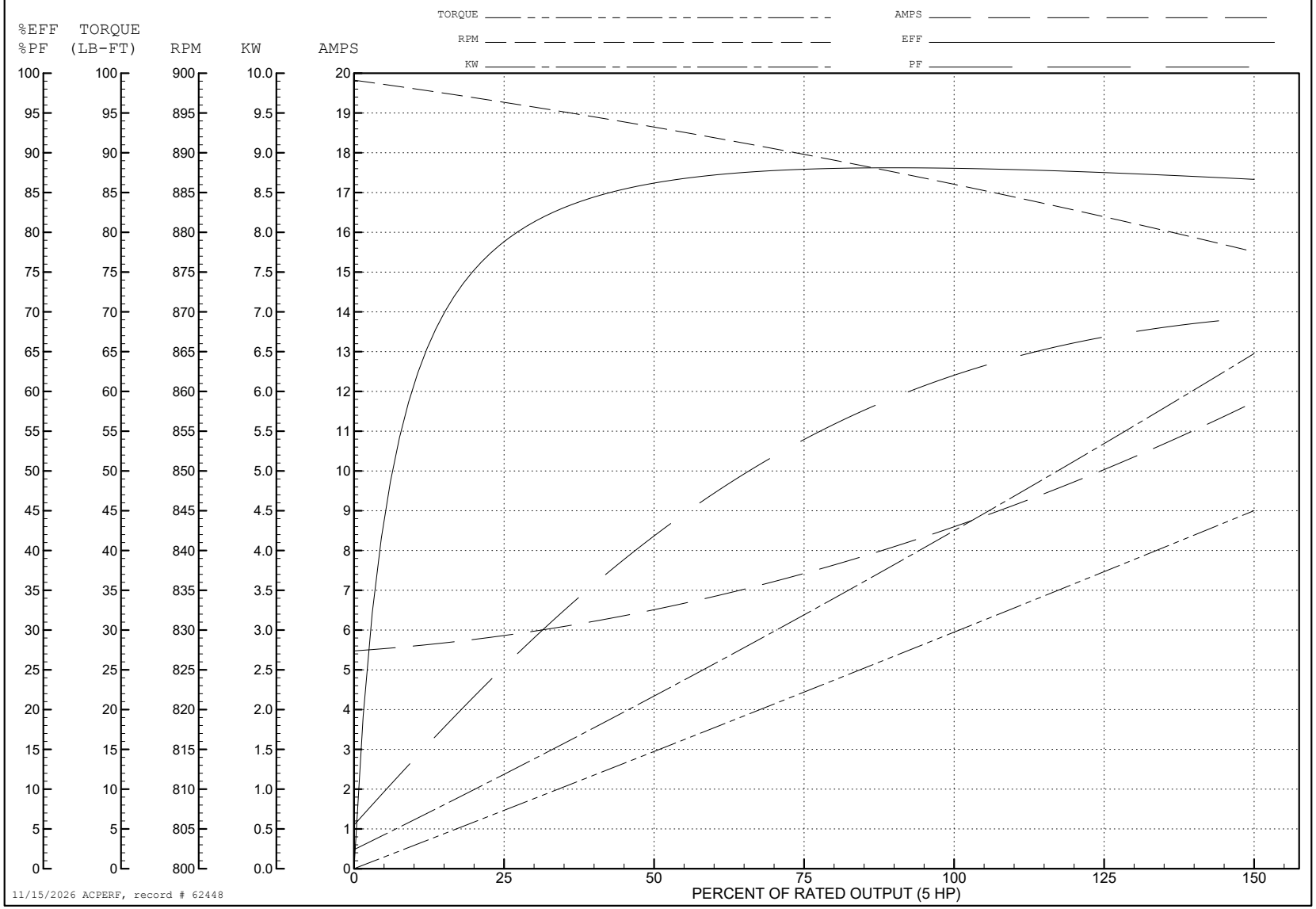
ABB Motors and Mechanical Inc.

WINDING # 09WGT414

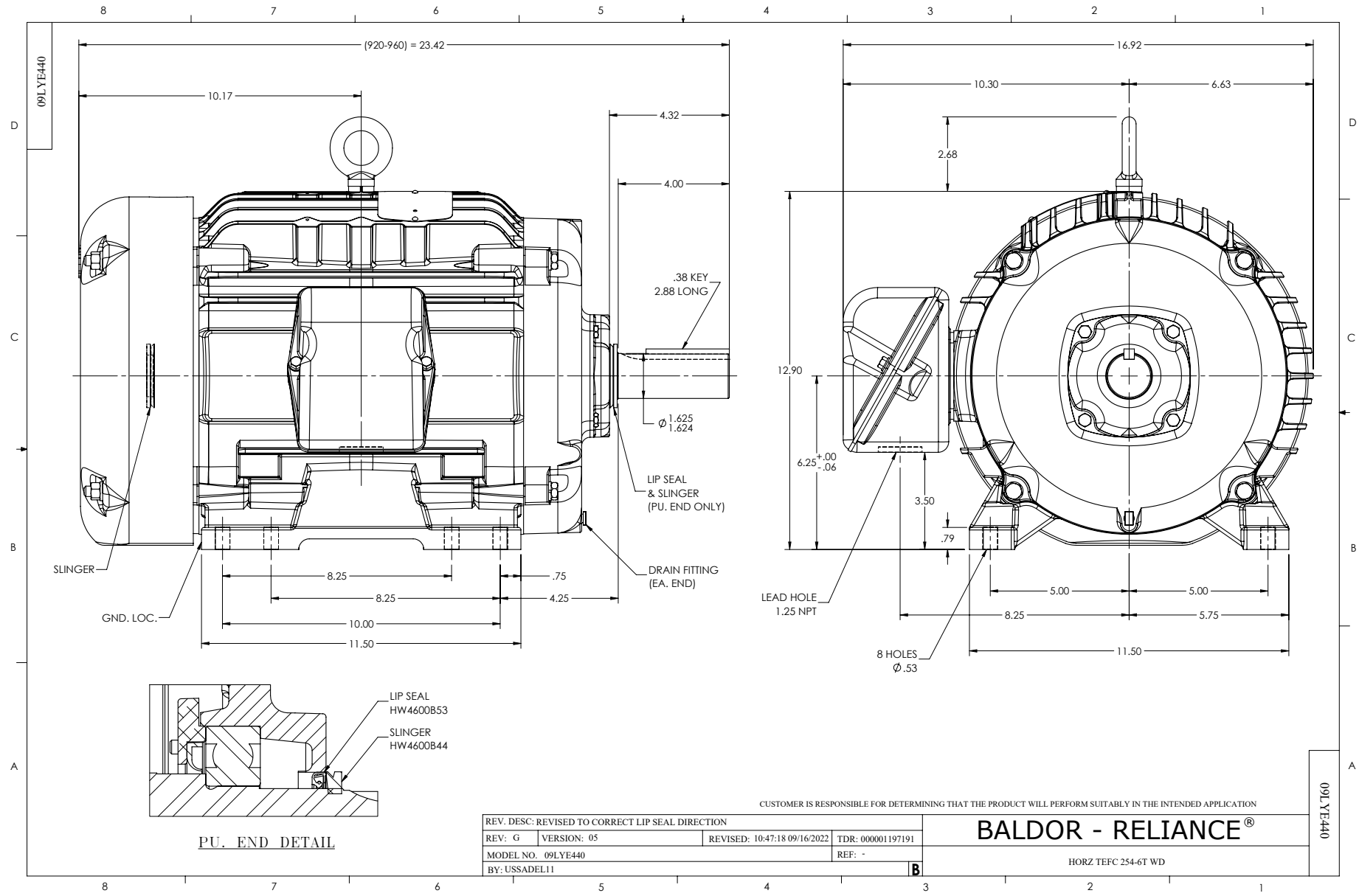
5 HP 3 PH 60 HZ 880 RPM 460 V 0952M

Typical performance - not guaranteed values.

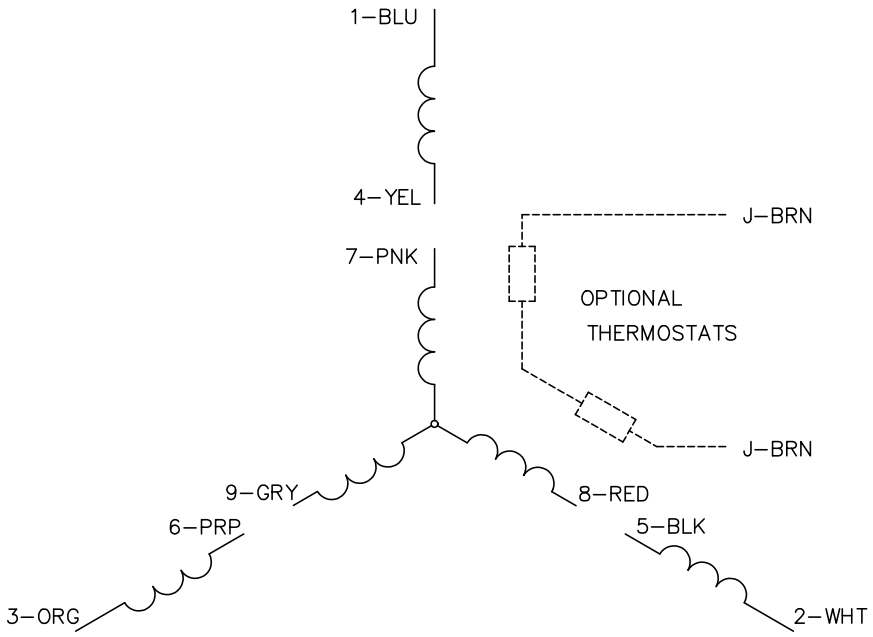
TORQUES(LB-FT): PO=82 PU=46.8 LR=72.2 LRA=53.5

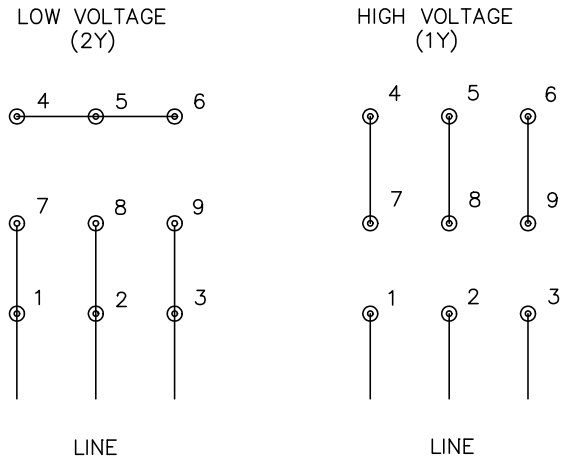


11/15/2026 ACPERF, record # 62448


09LYE440
(920-960) = 23.42
10.17
4.32
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
LIP SEAL
& SLINGER
(PU. END ONLY)
SLINGER
GND. LOC.
8.25
8.25
10.00
11.50
.75
4.25
DRAIN FITTING
(EA. END)
16.92
10.30
6.63
2.68
12.90
6.25 +.00 -.06
3.50
.79
LEAD HOLE
1.25 NPT
5.00
5.00
8.25
5.75
11.50
8 HOLES
Ø .53
LIP SEAL
HW4600B53
SLINGER
HW4600B44
PU. END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REVISED TO CORRECT LIP SEAL DIRECTION
REV: G
VERSION: 05
REVISED: 10:47:18 09/16/2022
TDR: 000001197191
MODEL NO. 09LYE440
REF: -
BY: USSADEL11
B
BALDOR - RELIANCE®
HORZ TEFC 254-6T WD
09LYE440

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