ABB BALDOR RELIANCE

Customer information packet

EWDM2280T

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

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10/30/2026 12:24:53 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								

Parts List

Part number	Description	Quantity
SA400207	SA 09E440T414	1.000 ea
RA391358	RA 09E440T414	1.000 ea
09CB3002A01P	CB MACH - 1.25 N.P.T. LEAD HOLE W/EPOXY	1.000 ea
09GS1017	GASKET, CONDUIT BOX, .125 THICK BLACK NE	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
09EP1100A67WP	ENDPLATE, MACH	1.000 ea
HA3400S11	STUD 3/8-16 X 4.82 HEX SSWELKER	4.000 ea
HW1001S38	WASHER, 3/8 SPLT LK, STAINLESS STEEL	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
09EP1101A25P	SPL PU EP,MODEL 309 - 309 BRG W/EPOXY PR	1.000 ea
10XN2520S36	1/4-20X 2 1/4 HEX HD SS	4.000 ea
10XN3816S24	3/8-16X1 1/2 HX HD CAP SS	4.000 ea
HW1001S38	WASHER, 3/8 SPLT LK, STAINLESS STEEL	4.000 ea
09FH4000WP	FAN COVER, STAMPED W/WHITE EPOXY, PRIMED	1.000 ea
XY3816S12	3/8-16 HEX FINISHED NUT SS	4.000 ea
HW1001S38	WASHER, 3/8 SPLT LK, STAINLESS STEEL	4.000 ea
HW4600B53	SEAL 1.688 X 2.275 X 0.312 SINGLE LIP DB	1.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
09CB3501P	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 ea
19XT2520S12	1/4-20X3/4 HWH NO SLOT TY.23 18-8 S.S.	2.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	2.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 ea
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.033 ea
HW2502G25	#303 SS,SQ KEY 3/8 X 2.880	1.000 ea
09GS1017	GASKET, CONDUIT BOX, .125 THICK BLACK NE	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
09FN3001D01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.070 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LC0005E01	SPL CONN.DIA./WARN.LABEL(LC0005/LB1119)	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
09PA1000	PACKAGING GROUP COMBINED PRINT	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
51XB1214S20	12-14X1.25 HXWSSLD SERTYB, SS	1.000 ea

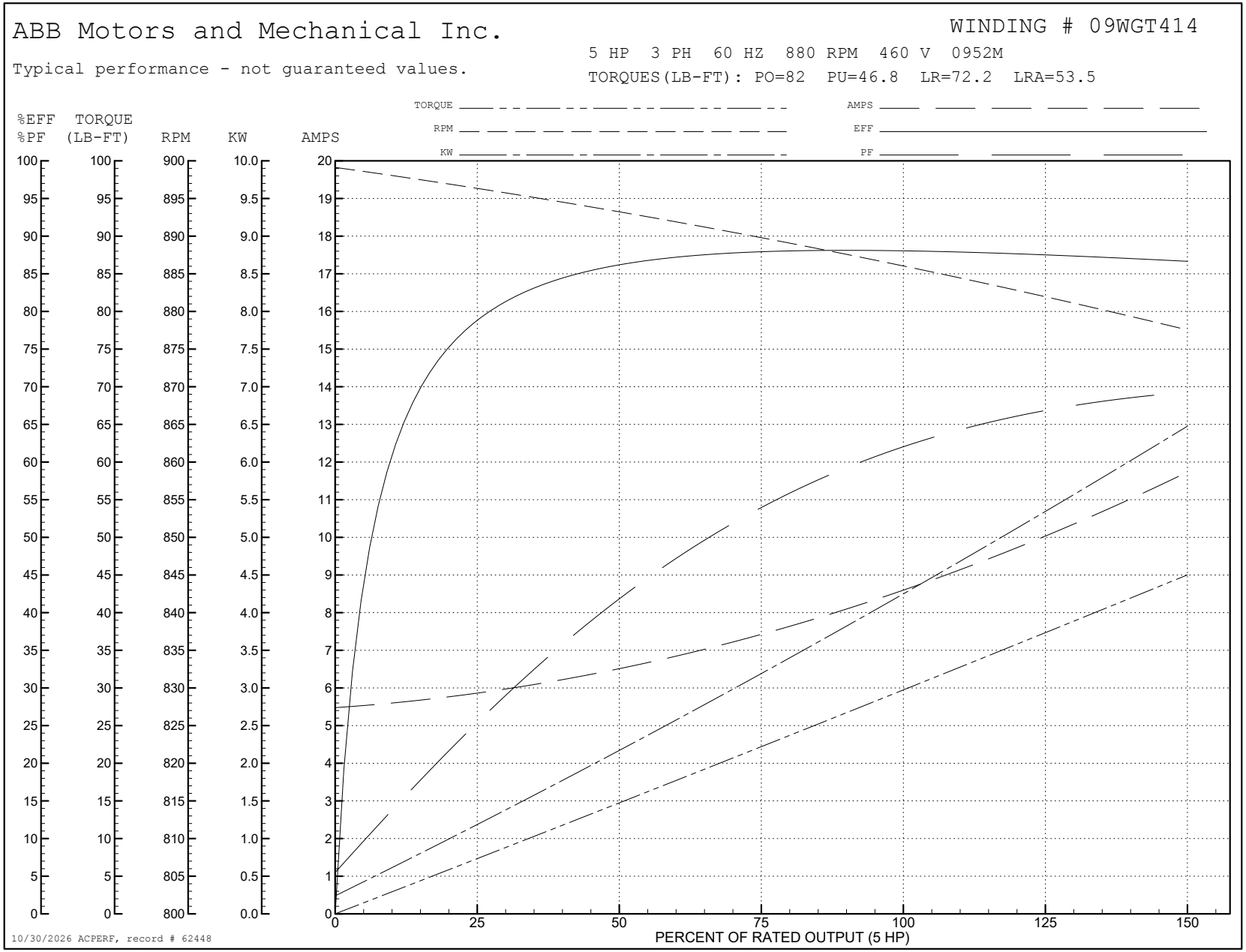
AC Induction Motor Performance Data
Record # 62448
Typical performance - not guaranteed values

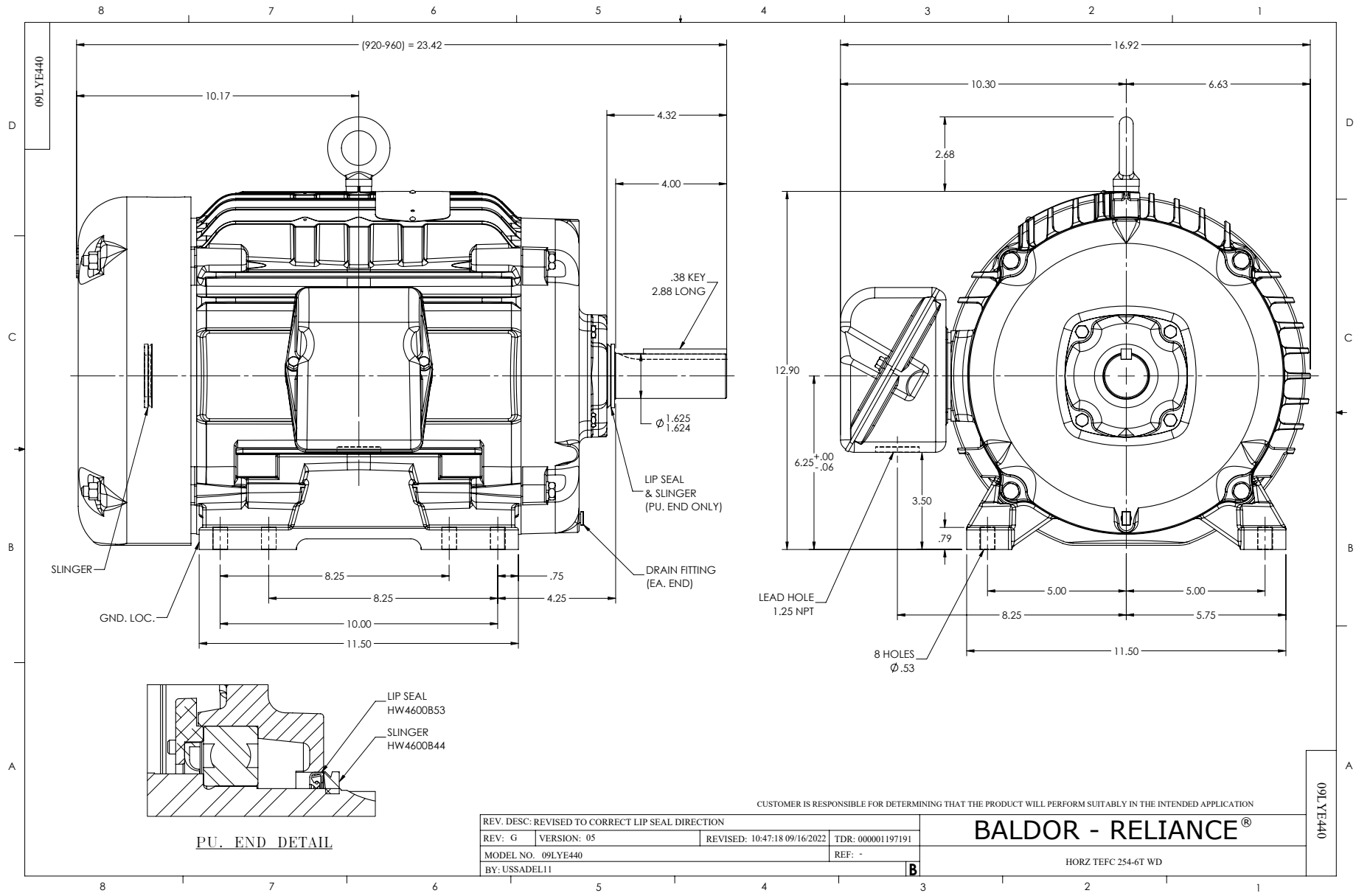
Winding: 09WGT414-R001	**Type:** 0952M	**Enclosure:** TEFC

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

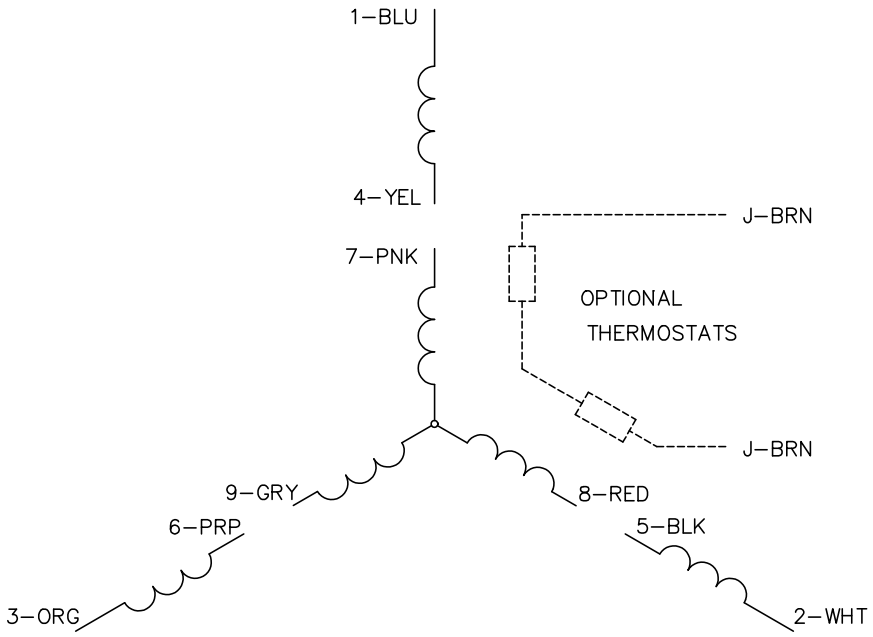
Load Characteristics 460 V, 60 Hz, 5 HP

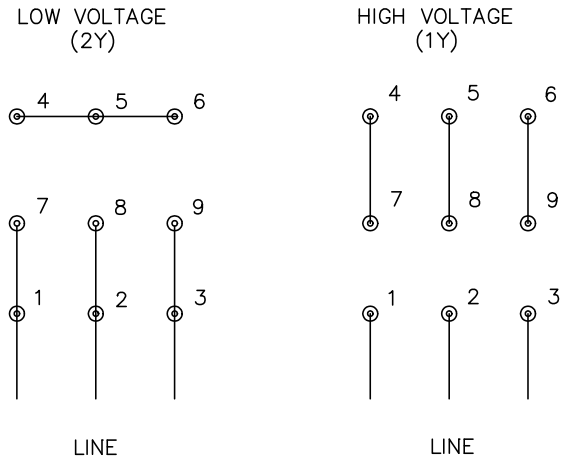
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	42	54	61	66	70	64
Efficiency	78.6	86	87.9	88.2	87.6	86.6	87.8
Speed	896.5	893.4	889.8	886	882.1	877.6	884
Line amperes	5.8	6.45	7.42	8.62	10	11.7	9.45


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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
10/30/2026 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