ABB BALDOR RELIANCE

Customer information packet

M1213T

25/6.3HP, 1760/870RPM, 3PH, 60HZ, 284T, 4046M

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/15/2026 10:03:40 AM

Specifications

Enclosure	OPSB
Frame	284T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
	6.300 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 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	34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	S
Type	AC
Mech. spec.	40D101
Base	
Status	PRD/A
Elec. spec.	40WGX164
Layout	40LYD101
Eff. date	02-12-2024
CD Diagram	CD0032
Poles	04/08
Leads	6#10
Proprietary	False
Created date	12-10-2009

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4046M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	23.81 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
	870 rpm
Speed Code	2S-1W-VT
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

NP1256L									
CAT.NO.	M1213T								
SPEC.	40D101X164								
HP	25/6.3								
VOLTS	460								
AMP	34/13.9								
RPM	1760/870								
FRAME	284T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF		**PF**							
RATING	40C AMB-CONT								
CC									
DE	6311	**ODE**	6309						
ENCL	OPSB	**SN**							

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 30902
Typical performance - not guaranteed values

Winding: 40WGX164-R001	**Type:** 4046M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			25/6.3	**Full Load Torque**	74.6 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			34/13.9	**Breakdown Torque**	257 LB-FT
R.P.M.			1760/870	**Pull-up Torque**	94.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	147 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	251 A
Service Factor (S.F.)			1.15	**No-load Current**	17.4 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	0.31557 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	45°C

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	59	70	76	81	81	79
Efficiency	79.7	87.6	89.9	90.4	90.7	89.9	90.6
Speed	1795.5	1792	1788.1	1783.9	1778.9	1773.3	1781
Line amperes	19.5	23.1	28.4	34.3	40.7	48.4	38.1

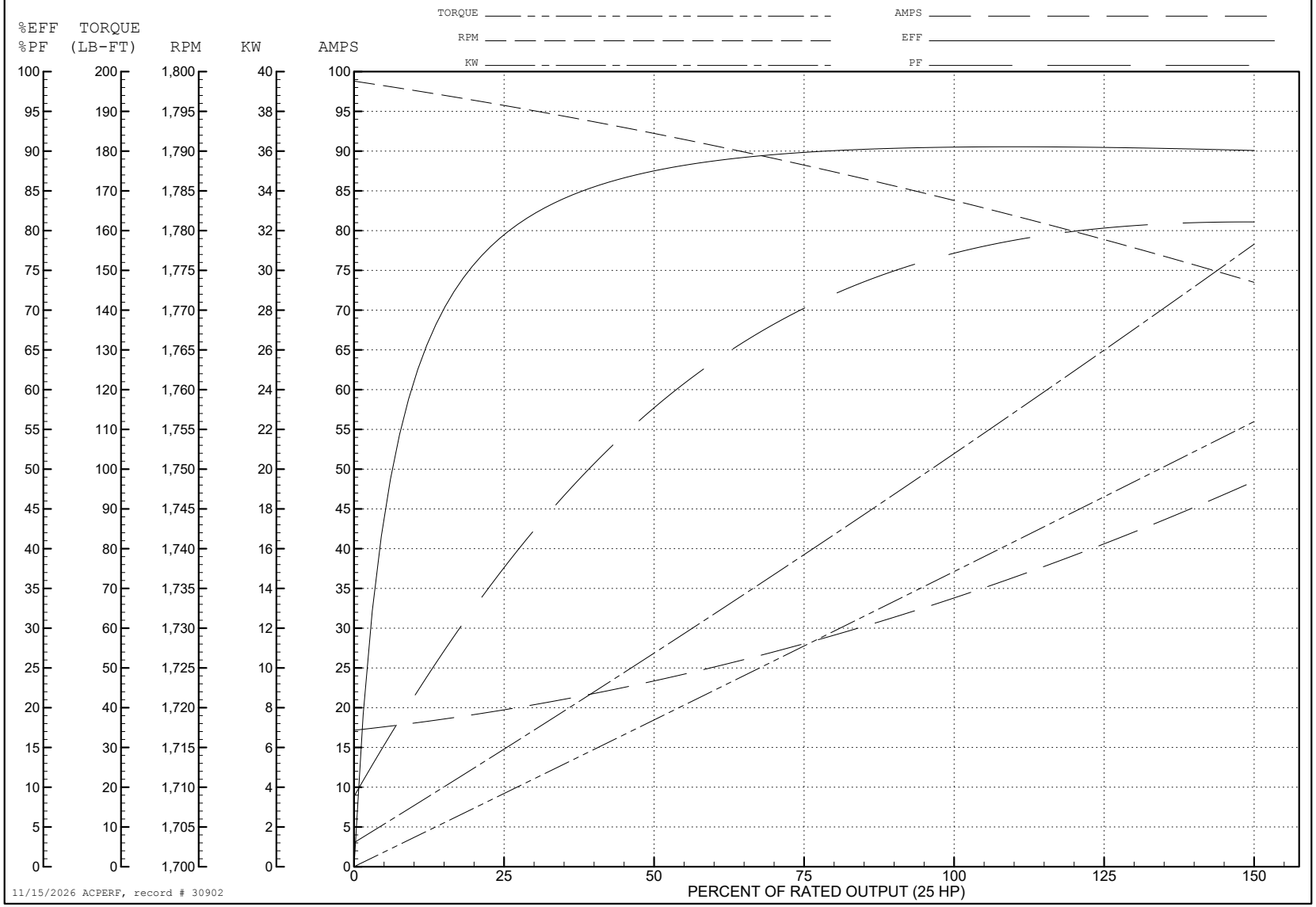
ABB Motors and Mechanical Inc.

WINDING # 40WGX164

25 HP 3 PH 60 HZ 1783.9 RPM 460 V 4046M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=257 PU=94.9 LR=147 LRA=251



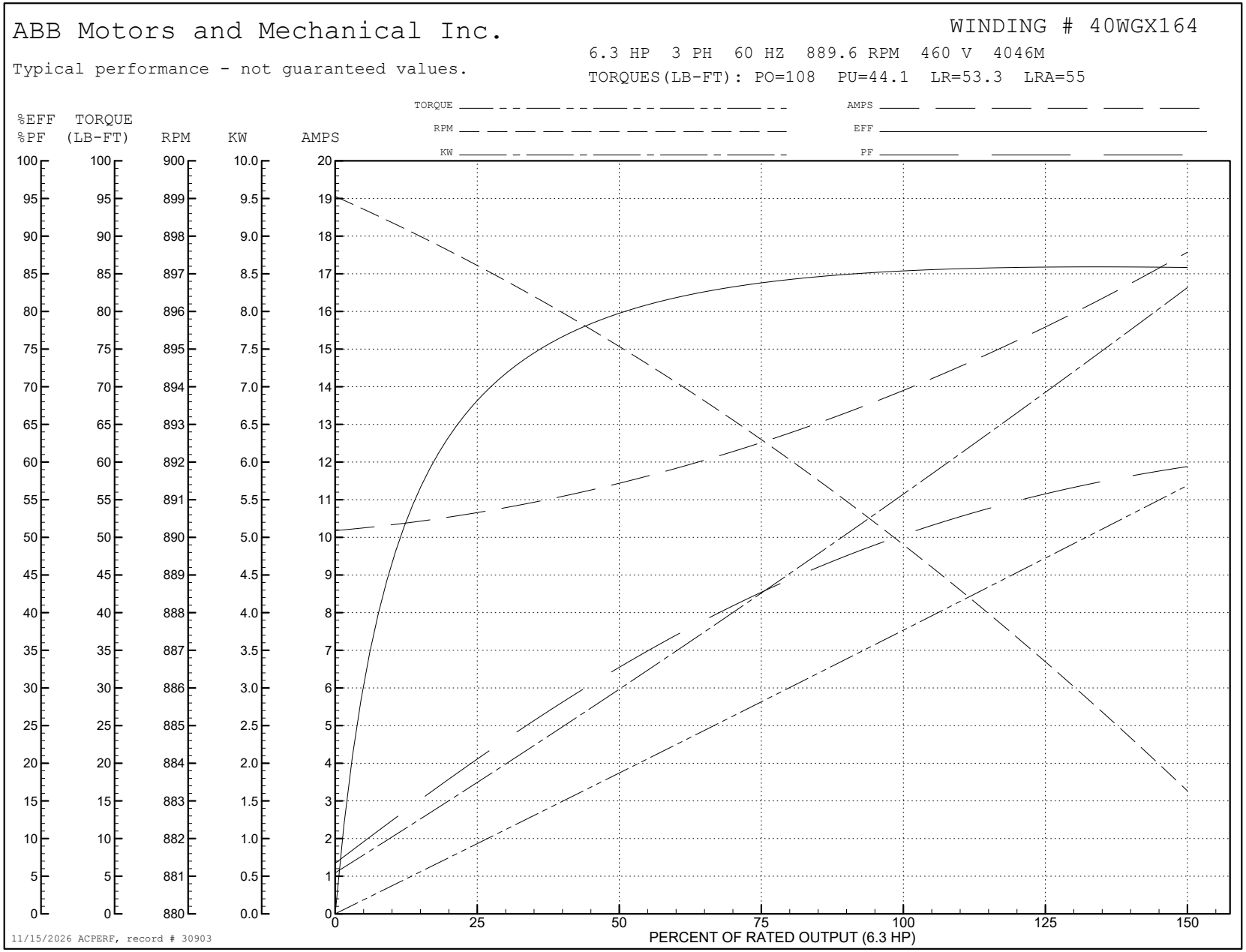
AC Induction Motor Performance Data
Record # 30903
Typical performance - not guaranteed values

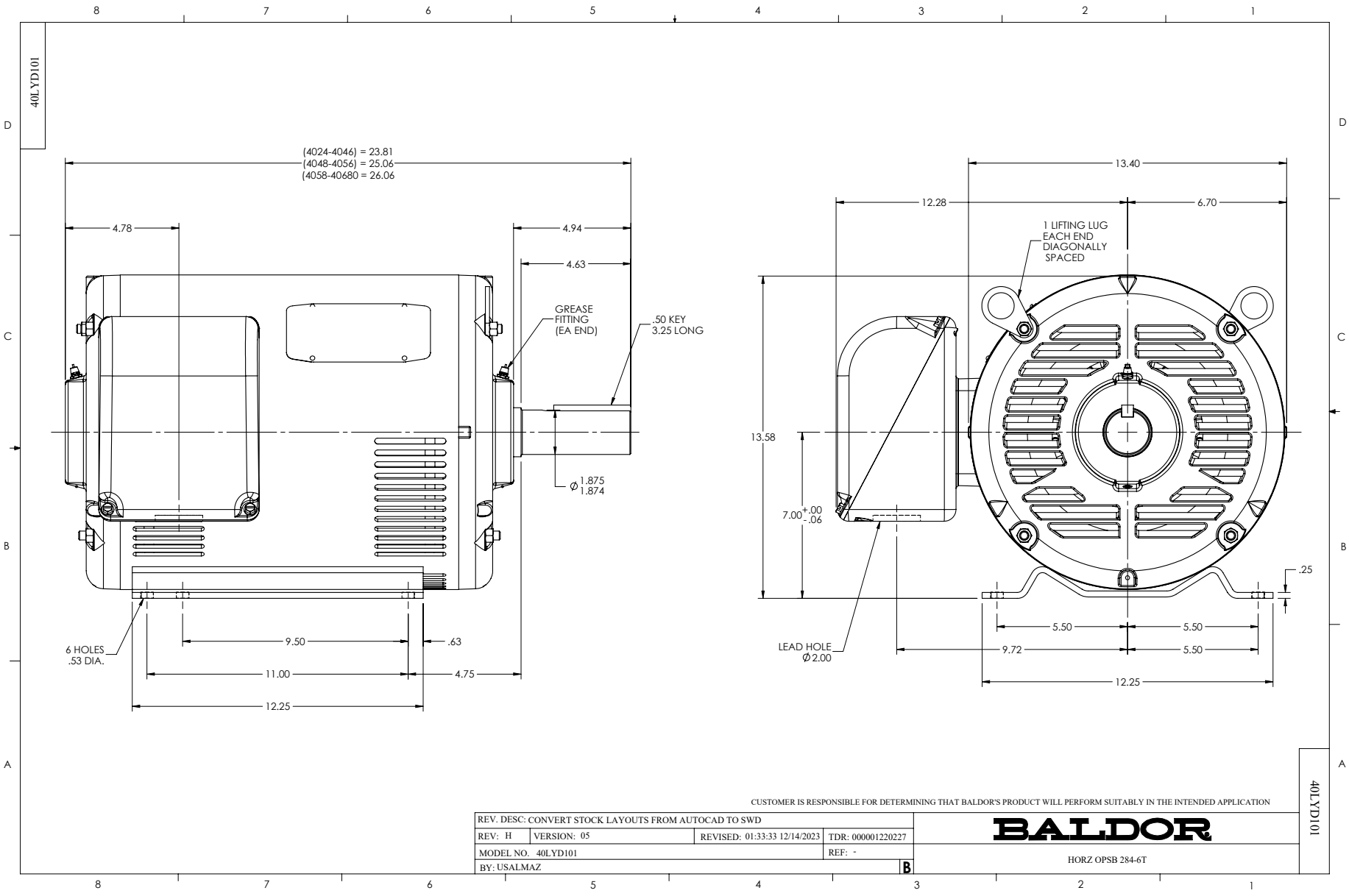
Winding: 40WGX164-R001	**Type:** 4046M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			25/6.3	**Full Load Torque**	37.9 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			34/13.9	**Breakdown Torque**	108 LB-FT
R.P.M.			1760/870	**Pull-up Torque**	44.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.3 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	55 A
Service Factor (S.F.)			1.15	**No-load Current**	10.2 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	1.2454 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
S.F. Amps				**Temp. Rise @ S.F. Load**	35°C

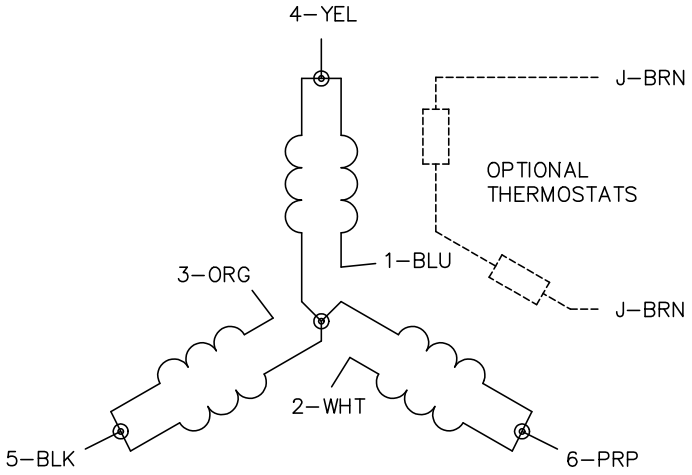
Load Characteristics 460 V, 60 Hz, 6.3 HP

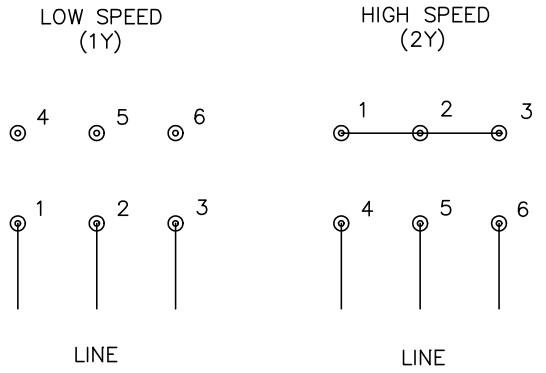
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	21	33	43	50	56	59	54
Efficiency	68.5	79.6	83.6	85.7	86.1	85.7	85.9
Speed	897.3	894.9	892.7	889.6	886.6	883.3	888
Line amperes	10.6	11.5	12.6	13.9	15.6	17.6	14.9


ABB Motors and Mechanical Inc.
WINDING # 40WGX164
6.3 HP 3 PH 60 HZ 889.6 RPM 460 V 4046M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=108 PU=44.1 LR=53.3 LRA=55
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (6.3 HP)
11/15/2026 ACPERF, record # 30903


40LYD101
(4024-4046) = 23.81
(4048-4056) = 25.06
(4058-40680 = 26.06
4.78
4.94
4.63
GREASE FITTING (EA END)
.50 KEY 3.25 LONG
Ø 1.875 1.874
6 HOLES .53 DIA.
9.50
.63
11.00
4.75
12.25
13.40
12.28
6.70
1 LIFTING LUG EACH END DIAGONALLY SPACED
13.58
7.00 +.00 -.06
.25
LEAD HOLE Ø 2.00
5.50
5.50
9.72
5.50
12.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: H
VERSION: 05
REVISED: 01:33:33 12/14/2023
TDR: 000001220227
MODEL NO. 40LYD101
REF: -
BY: USALMAZ
B
BALDOR
HORZ OPSB 284-6T
40LYD101

CD0032





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.

CD0032

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING VARIABLE TORQUE