ABB BALDOR RELIANCE

Customer information packet

M1227T

15/6.7HP, 1760/1160RPM, 3PH, 60HZ, 284T, 4040

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Specifications

Enclosure	OPSB
Frame	284T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
	6.700 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	17.900 A @ 460.0 V
Design Code	B
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	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	Q
Type	AC
Mech. spec.	40D101
Base	
Status	PRD/A
Elec. spec.	40WGX175
Layout	40LYD101
Eff. date	06-13-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#10
Proprietary	False
Created date	02-12-2010

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	4040M
Mounting Arrangement	F1
Number of Poles	4
	6
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	1180 rpm
	1740 rpm
Speed Code	2S-2W-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.	M1227T										
SPEC.	40D101X175										
HP	15/6.7										
VOLTS	460										
AMP	17.9/11.5										
RPM	1740/1180										
FRAME	284T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	G	**DES**	B	**CLASS**		F			
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6311		**ODE**	6309							
ENCL	OPSB	**SN**									

Parts List

Part number	Description	Quantity
SA191372	SA 40D101X175	1.000 ea
RA179032	RA 40D101X175	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
40EP3200A02	STD FREP OPEN 309 BRG	1.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
40EP3200B05	STD PUEP OPEN 311 BRG	1.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
10CB3500	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.070 ga
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
HA3154A03	STUD, 3/8-16 X 17.75	4.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0013	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea
FE-0000022	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 57716
Typical performance - not guaranteed values

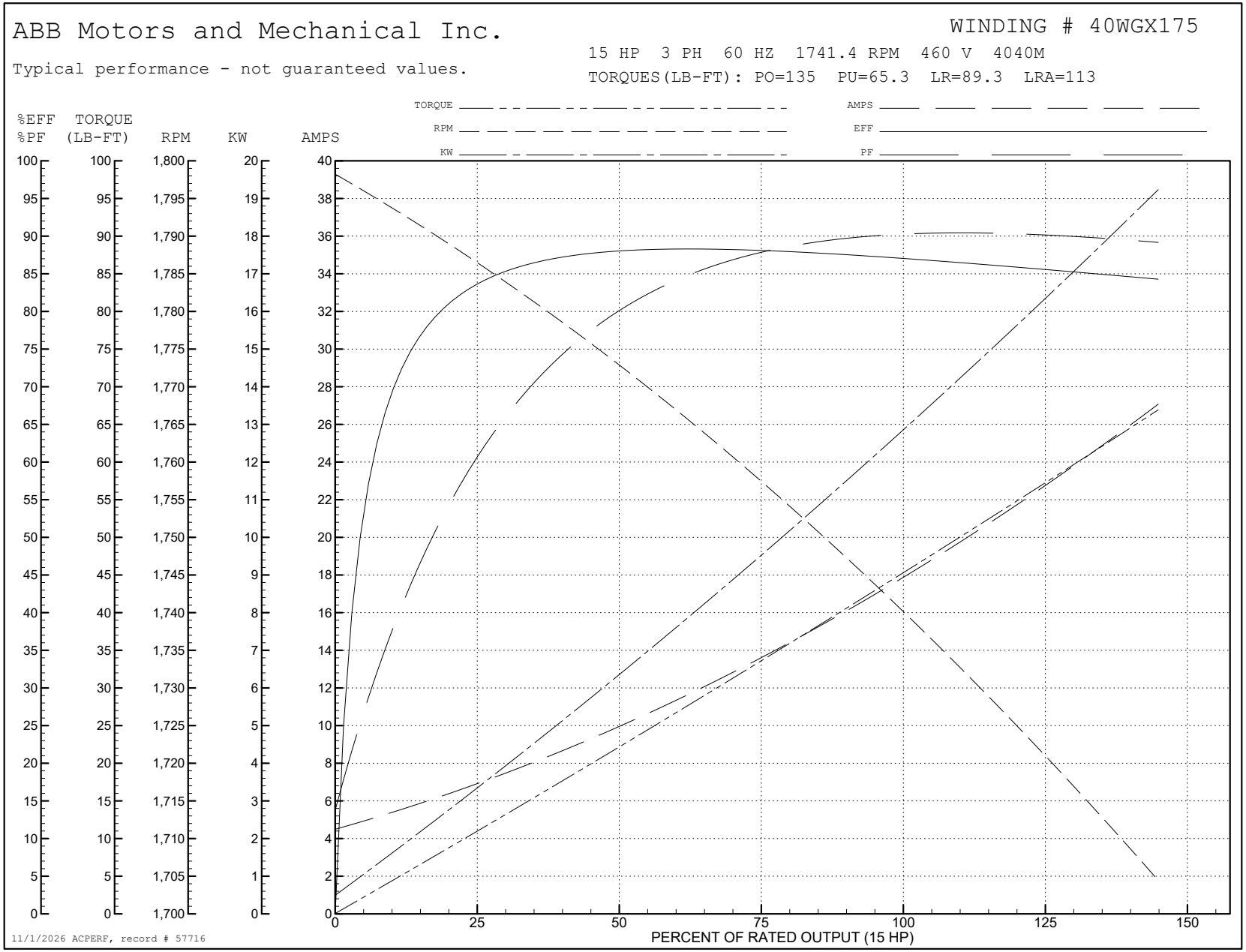
Winding: 40WGX175-R001	**Type:** 4040M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			15/6.7
Volts			460
Full Load Amps			18.1/12.6
R.P.M.			1760/1160
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Speed Connection	
Full Load Torque	45 LB-FT
Start Configuration	direct on line
Breakdown Torque	135 LB-FT
Pull-up Torque	65.3 LB-FT
Locked-rotor Torque	89.3 LB-FT
Starting Current	113 A
No-load Current	4.7 A
Line-line Res. @ 25ºC	1.0251 Ω
Temp. Rise @ Rated Load	38°C
Temp. Rise @ S.F. Load	46°C
Locked-rotor Power Factor	39.1

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	82	87	89	90	89	90
Efficiency	83.3	87.6	88.2	87.3	86.1	84.1	86.6
Speed	1785.3	1771.7	1757.2	1741.4	1724.2	1703.4	1731
Line amperes	6.68	9.96	13.8	17.9	22.2	27	20.5


ABB Motors and Mechanical Inc.
WINDING # 40WGX175
15 HP 3 PH 60 HZ 1741.4 RPM 460 V 4040M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=135 PU=65.3 LR=89.3 LRA=113
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/1/2026 ACPERF, record # 57716

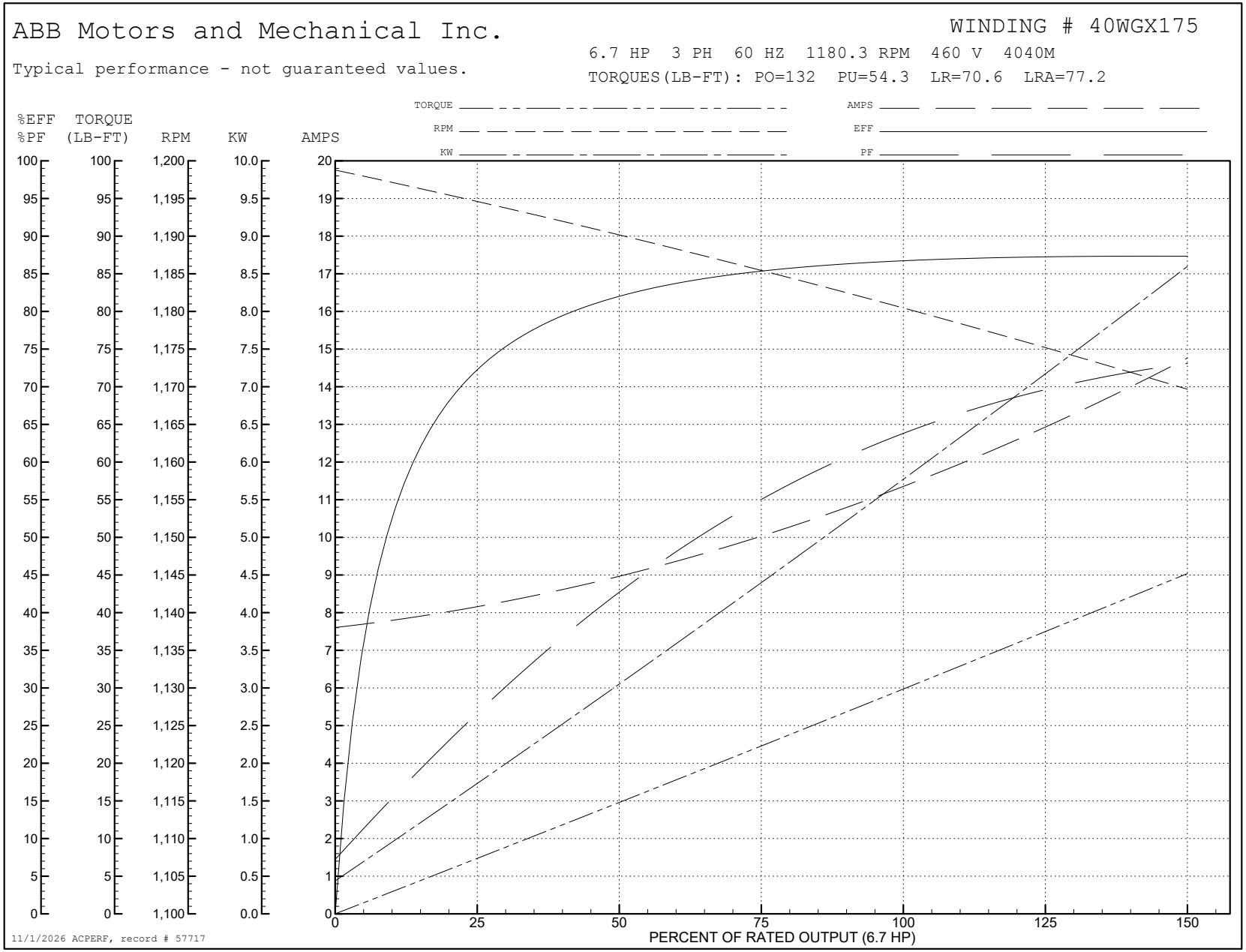
AC Induction Motor Performance Data
Record # 57717
Typical performance - not guaranteed values

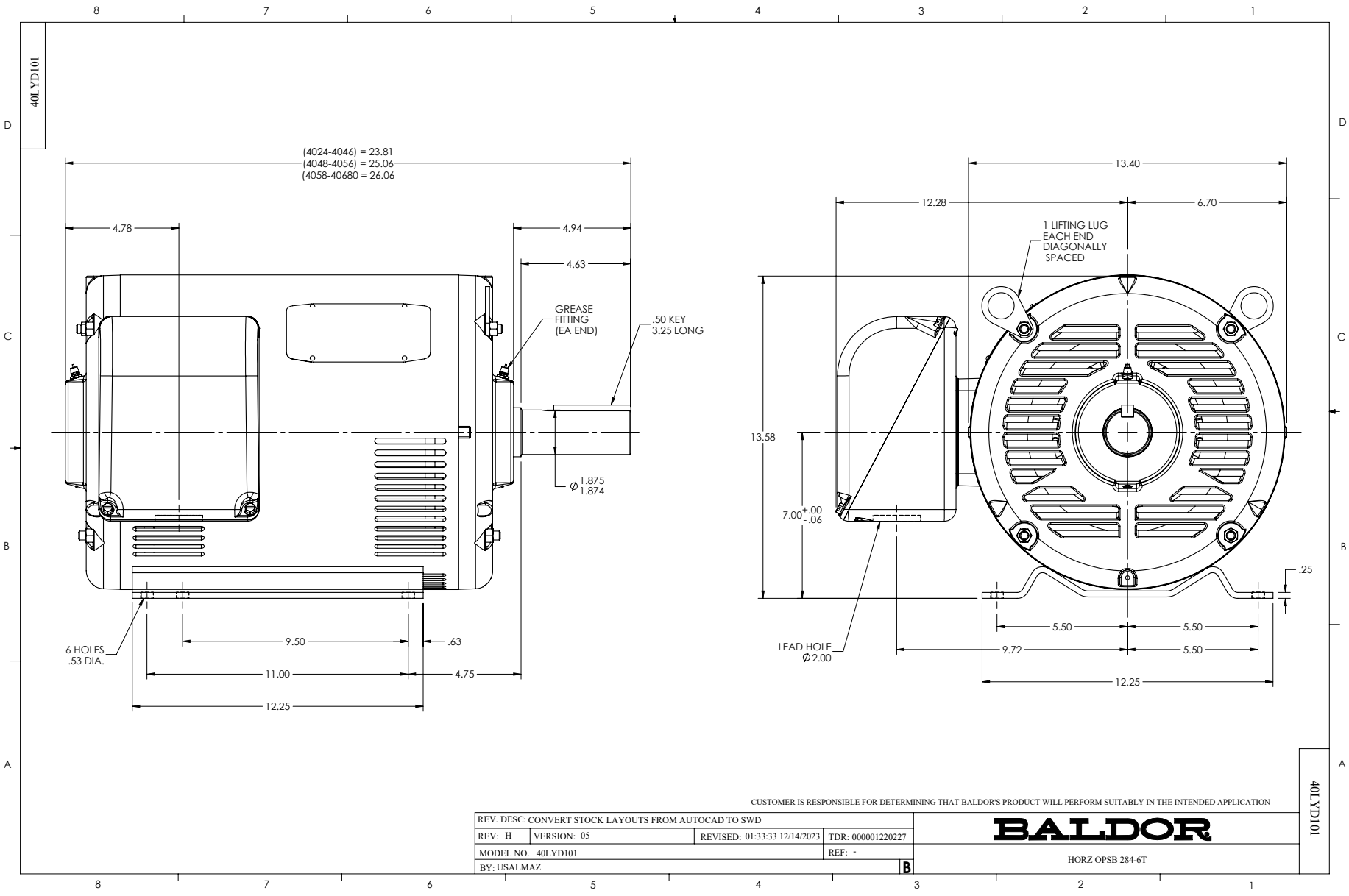
Winding: 40WGX175-R001	**Type:** 4040M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			15/6.7	**Full Load Torque**	30.5 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			18.1/12.6	**Breakdown Torque**	132 LB-FT
R.P.M.			1760/1160	**Pull-up Torque**	54.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	70.6 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	77.2 A
Service Factor (S.F.)			1.15	**No-load Current**	7.66 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	1.3335 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	38°C
				Locked-rotor Power Factor	39.1

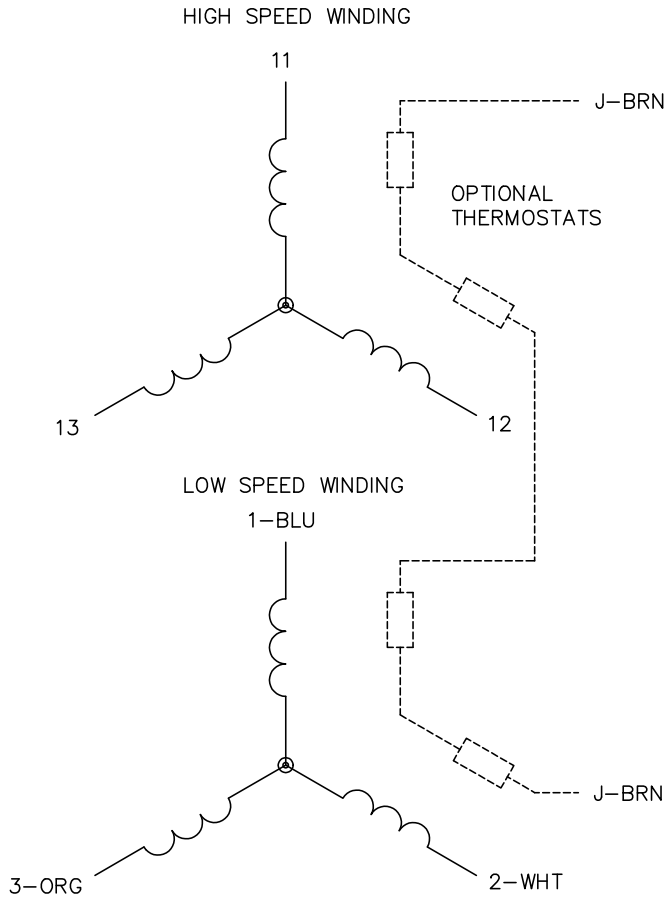
Load Characteristics 460 V, 60 Hz, 6.7 HP

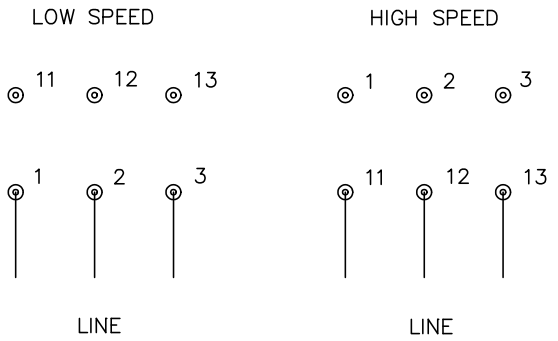
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	44	55	64	70	73	68
Efficiency	71.6	82.3	85.5	87	87.3	87.3	87.2
Speed	1194.3	1189.7	1185.2	1180.3	1175	1169.5	1177
Line amperes	8.1	8.99	10.1	11.5	13.1	14.7	12.5


ABB Motors and Mechanical Inc.
WINDING # 40WGX175
6.7 HP 3 PH 60 HZ 1180.3 RPM 460 V 4040M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=132 PU=54.3 LR=70.6 LRA=77.2
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (6.7 HP)
11/1/2026 ACPERF, record # 57717


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

CD0013





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 VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013