ABB BALDOR RELIANCE

Customer information packet

CTM1765T

40/10HP, 1775/885RPM, 3PH, 60HZ, 324T, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	324T
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	10.000 HP @ 60 HZ
	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	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	48.000 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	18.6 a
Insulation Class	F

Part Detail

Revision	W
Type	AC
Mech. spec.	12F707
Base	
Status	PRD/A
Elec. spec.	12WGW968
Layout	12LYF707
Eff. date	10-16-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#8
Proprietary	False
Created date	10-29-2009

Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1262M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	30.28 IN
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
	870 rpm
Speed Code	2S-1W-VT
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2178								
CAT.NO.	CTM1765T							
SPEC.	12F707W968							
HP	40/10							
VOLTS	460							
AMP	48/18.6							
RPM	1760/870							
FRAME	324T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F	
NEMA-NOM-EFF		**PF**						
RATING	40C AMB-CONT							
CC								
DE	6312	**ODE**	6312					
ENCL	TEFC	**SN**						

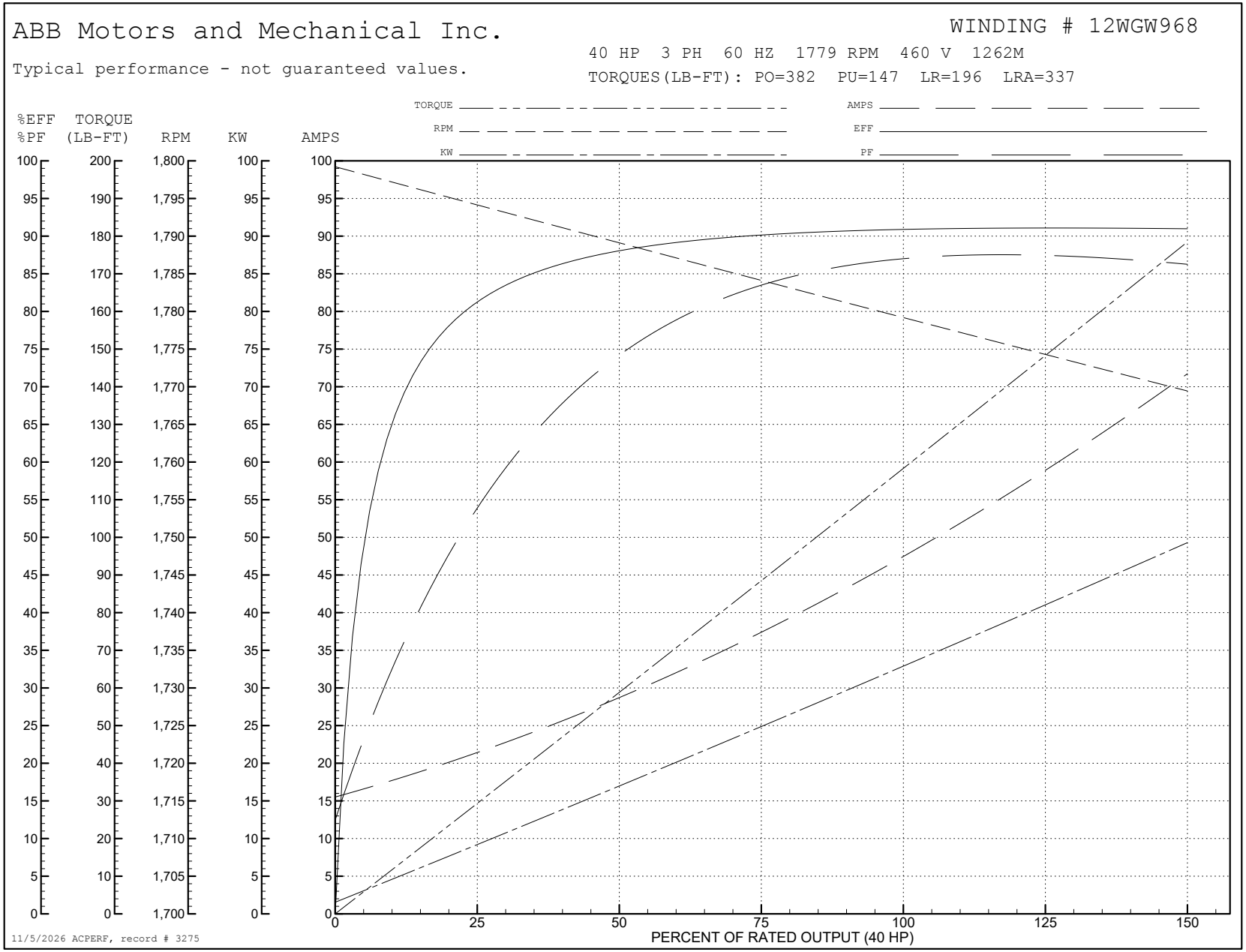
AC Induction Motor Performance Data
Record # 3275
Typical performance - not guaranteed values

Winding: 12WGW968-R001	**Type:** 1262M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			40/10	**Full Load Torque**	119 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			48/18.6	**Breakdown Torque**	382 LB-FT
R.P.M.			1760/870	**Pull-up Torque**	147 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	196 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	337 A
Service Factor (S.F.)			1.15	**No-load Current**	16.2 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	0.178 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	69°C

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	76	83	86	87	87	87
Efficiency	80	87.8	90.3	91.1	91.3	90.8	91.2
Speed	1795	1788	1784	1779	1775	1769	1777
Line amperes	20.6	28.5	37.9	48.2	59.4	71.3	54.9


ABB Motors and Mechanical Inc.
WINDING # 12WGW968
40 HP 3 PH 60 HZ 1779 RPM 460 V 1262M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=382 PU=147 LR=196 LRA=337
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (40 HP)
11/5/2026 ACPERF, record # 3275

AC Induction Motor Performance Data
Record # 3276
Typical performance - not guaranteed values

Winding: 12WGW968-R001	**Type:** 1262M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			40/10	**Full Load Torque**	60 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			48/18.6	**Breakdown Torque**	169 LB-FT
R.P.M.			1760/870	**Pull-up Torque**	61 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	71 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	79 A
Service Factor (S.F.)			1.15	**No-load Current**	12.2 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	0.682 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	37°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	40	51	58	63	65	61
Efficiency	72.4	82.8	86.5	87.7	88.1	87.7	87.9
Speed	896	894	891	889	886	882	887
Line amperes	12.9	14.3	16.2	18.6	21.5	24.8	20.34

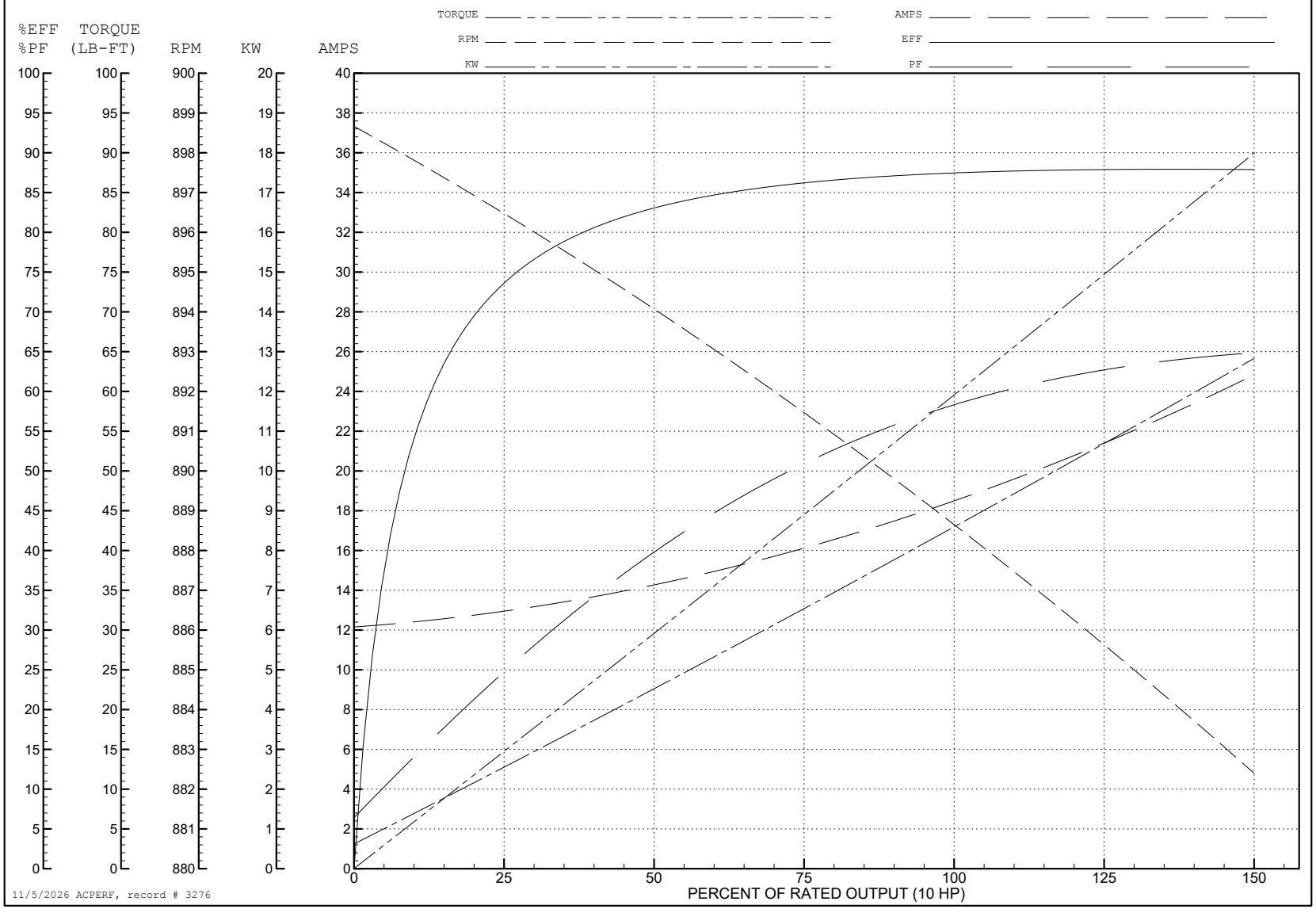
ABB Motors and Mechanical Inc.

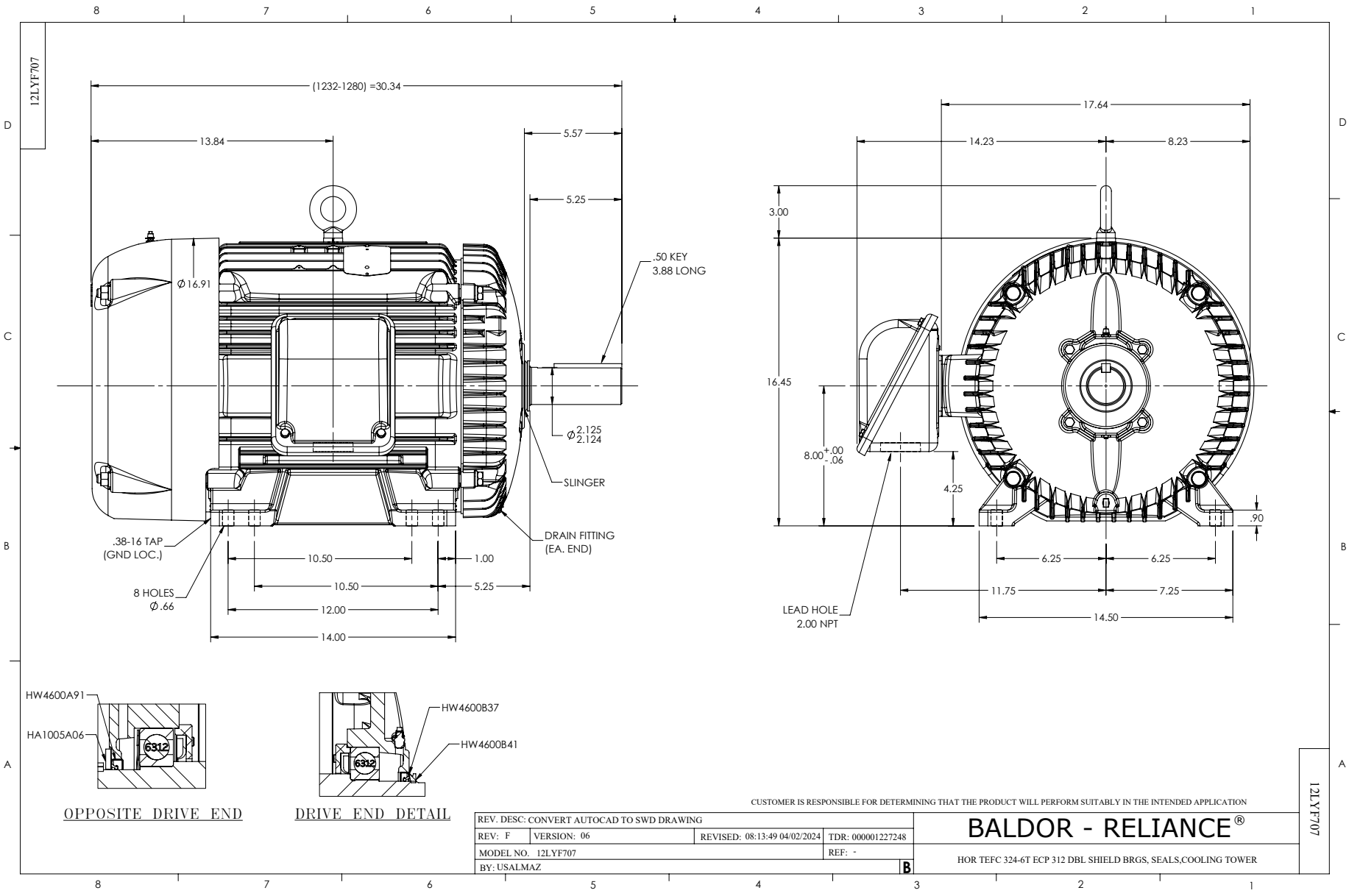
WINDING # 12WGW968

10 HP 3 PH 60 HZ 889 RPM 460 V 1262M

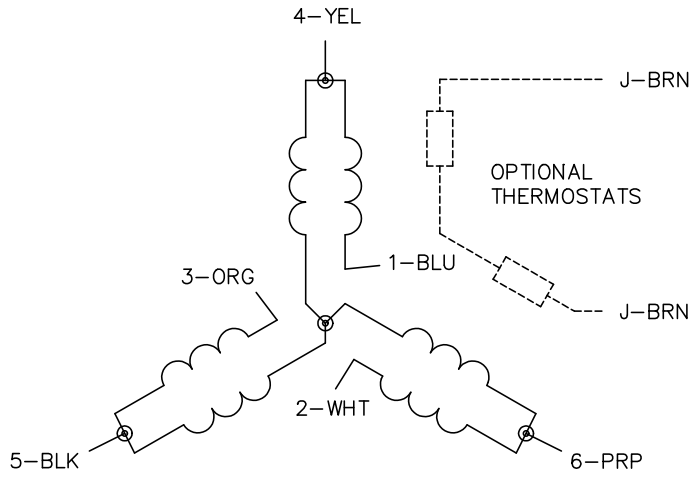
Typical performance - not guaranteed values.

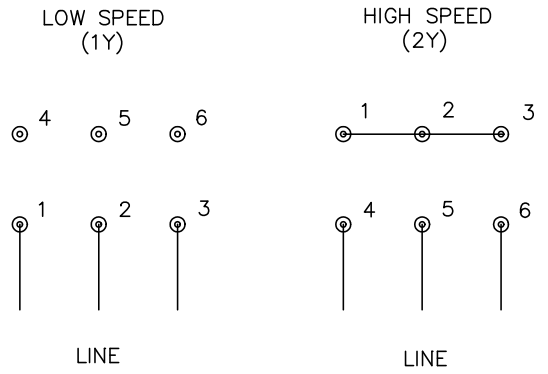
TORQUES(LB-FT): PO=169 PU=61 LR=71 LRA=79




12LYF707
(1232-1280) =30.34
13.84
5.57
5.25
.50 KEY
3.88 LONG
Ø16.91
Ø2.125
2.124
SLINGER
DRAIN FITTING
(EA. END)
.38-16 TAP
(GND LOC.)
8 HOLES
Ø.66
10.50
1.00
10.50
5.25
12.00
14.00
17.64
14.23
8.23
3.00
16.45
8.00 +.00 -.06
4.25
.90
6.25
6.25
11.75
7.25
14.50
LEAD HOLE
2.00 NPT
HW4600A91
HA1005A06
6312
HW4600B37
HW4600B41
6312
OPPOSITE DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: F
VERSION: 06
REVISED: 08:13:49 04/02/2024
TDR: 000001227248
MODEL NO. 12LYF707
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEFC 324-6T ECP 312 DBL SHIELD BRGS, SEALS,COOLING TOWER
12LYF707

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