ABB BALDOR RELIANCE

Customer information packet

CTM1764T

30/7.5HP, 1760/870RPM, 3PH, 60HZ, 286T, 1050M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	286T
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	7.500 HP @ 60 HZ
	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	36.000 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	13.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	N
Type	AC
Mech. spec.	10H161
Base	
Status	PRD/A
Elec. spec.	10WGW469
Layout	10LYH161
Eff. date	09-29-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#10
Proprietary	False
Created date	08-15-2014

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	1050M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	27.93 IN
Product Family	Chemical Processing (Not DC)
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	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

NP1258									
CAT.NO.	CTM1764T								
SPEC.	10H161W469G1								
HP	30/7.5								
VOLTS	460								
AMP	36/13								
RPM	1760/870								
FRAME	286T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	G	**DES**	B	**CL**	F		
NEMA-NOM-EFF		**PF**							
RATING	40C AMB-CONT								
CC									
DE	6311	**ODE**	6311						
ENCL	TEFC	**SN**							

NP0090	
FRONT	6311
PULLEY	6311
LUBRICATE WITH	
GREASE	POLYREX EM

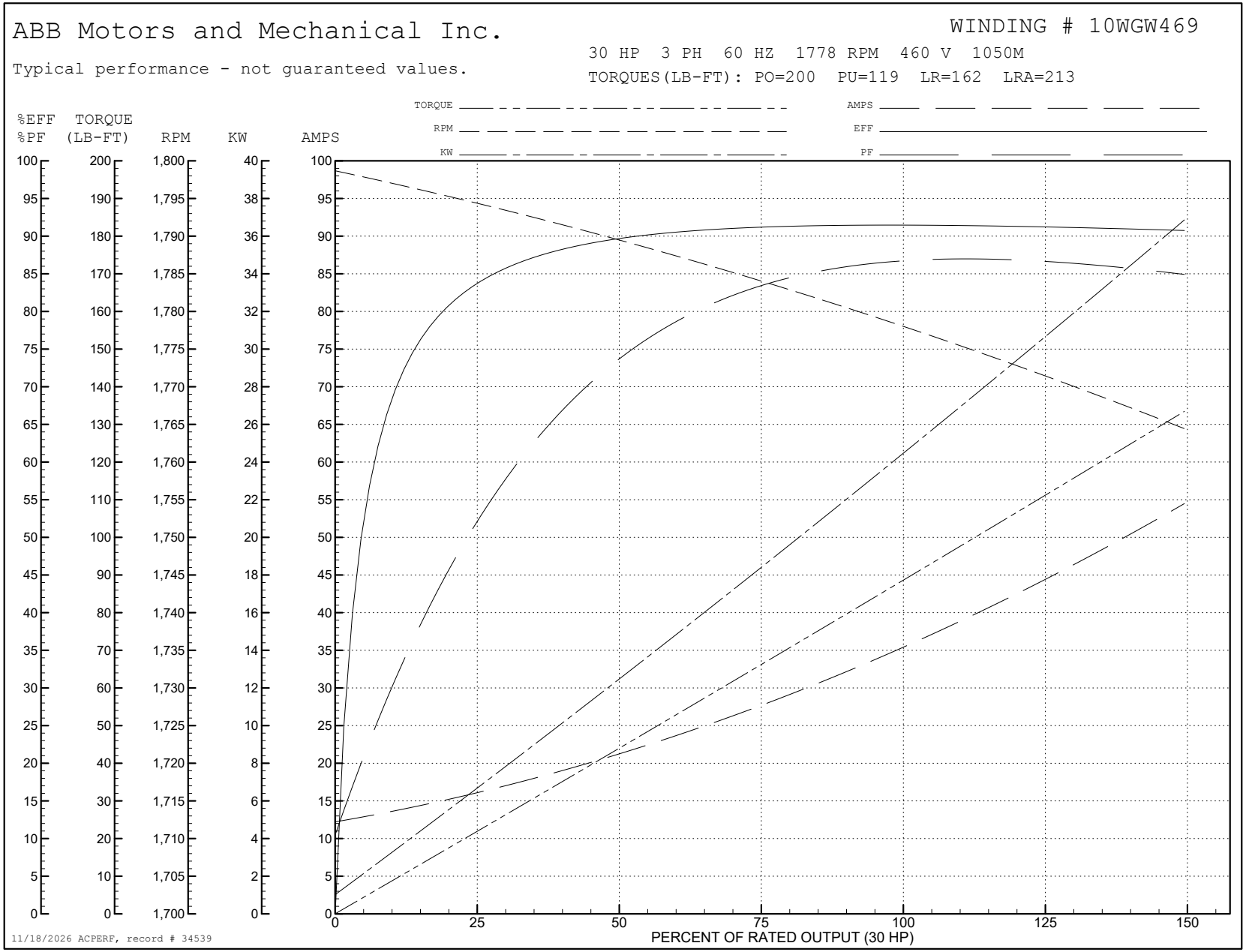
AC Induction Motor Performance Data
Record # 34539
Typical performance - not guaranteed values

Winding: 10WGW469-R007	**Type:** 1050M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			30/7.5	**Full Load Torque**	89 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			36/13	**Breakdown Torque**	200 LB-FT
R.P.M.			1760/870	**Pull-up Torque**	119 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	162 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	213 A
Service Factor (S.F.)			1.15	**No-load Current**	12.7 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	0.318 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	88°C
S.F. Amps				**Temp. Rise @ S.F. Load**	102°C

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	75	83	86	86	85	86
Efficiency	83.8	89.6	91.2	91.5	91.3	90.7	91.4
Speed	1794	1789	1784	1778	1772	1764	1774
Line amperes	15.5	21.1	28	36	44.6	54.2	41.2


ABB Motors and Mechanical Inc.
WINDING # 10WGW469
30 HP 3 PH 60 HZ 1778 RPM 460 V 1050M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=200 PU=119 LR=162 LRA=213
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/18/2026 ACPERF, record # 34539

AC Induction Motor Performance Data
Record # 34540
Typical performance - not guaranteed values

Winding: 10WGW469-R007	**Type:** 1050M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			30/7.5	**Full Load Torque**	44.5 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			36/13	**Breakdown Torque**	89 LB-FT
R.P.M.			1760/870	**Pull-up Torque**	50 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	68 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	55 A
Service Factor (S.F.)			1.15	**No-load Current**	8.5 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	1.31 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	43	55	61	66	68	64
Efficiency	75.5	84.4	87.3	88.3	88.3	87.6	88.3
Speed	897	894	892	889	885	881	887
Line amperes	8.9	9.8	11.1	13	15	17.7	14.2

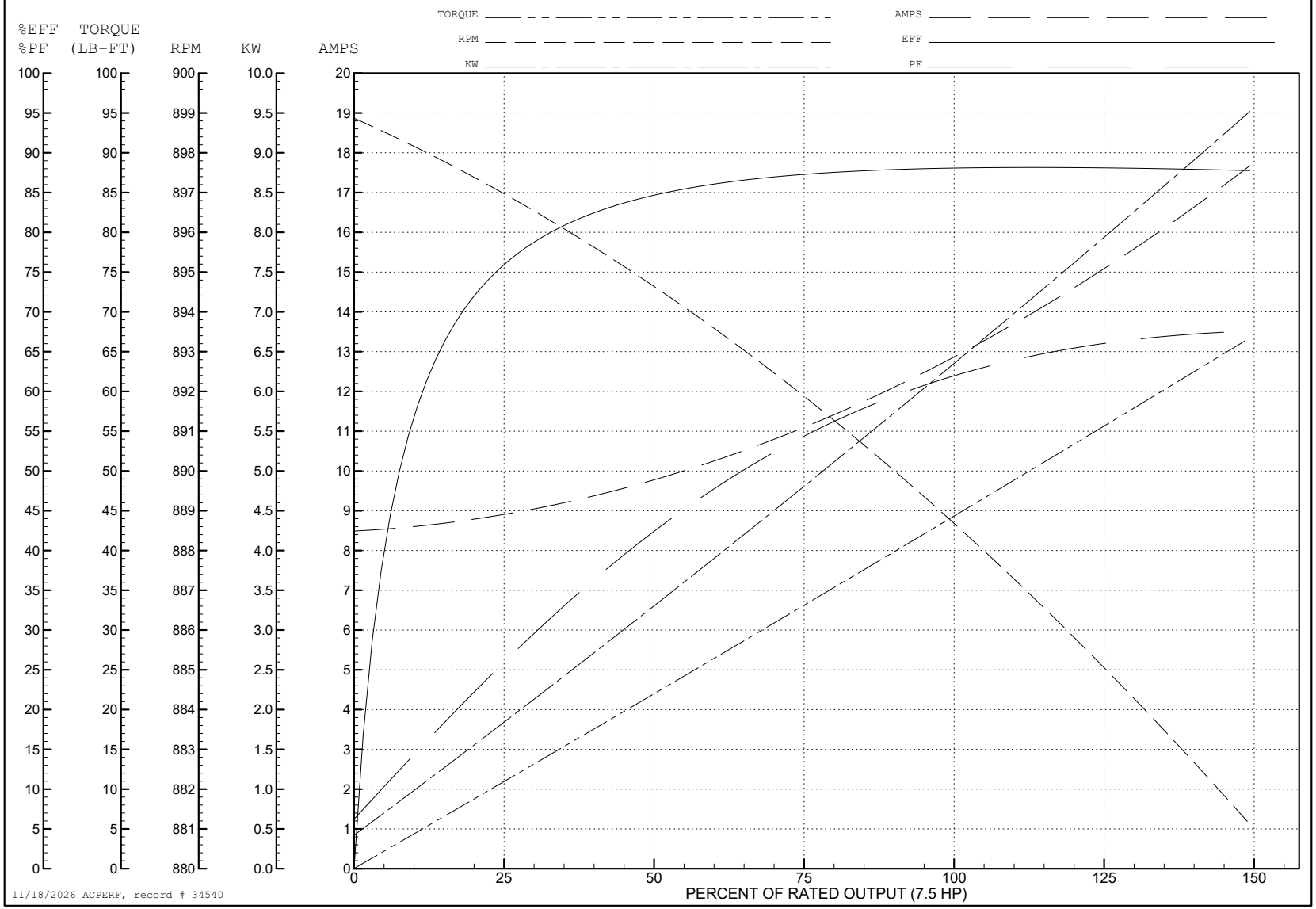
ABB Motors and Mechanical Inc.

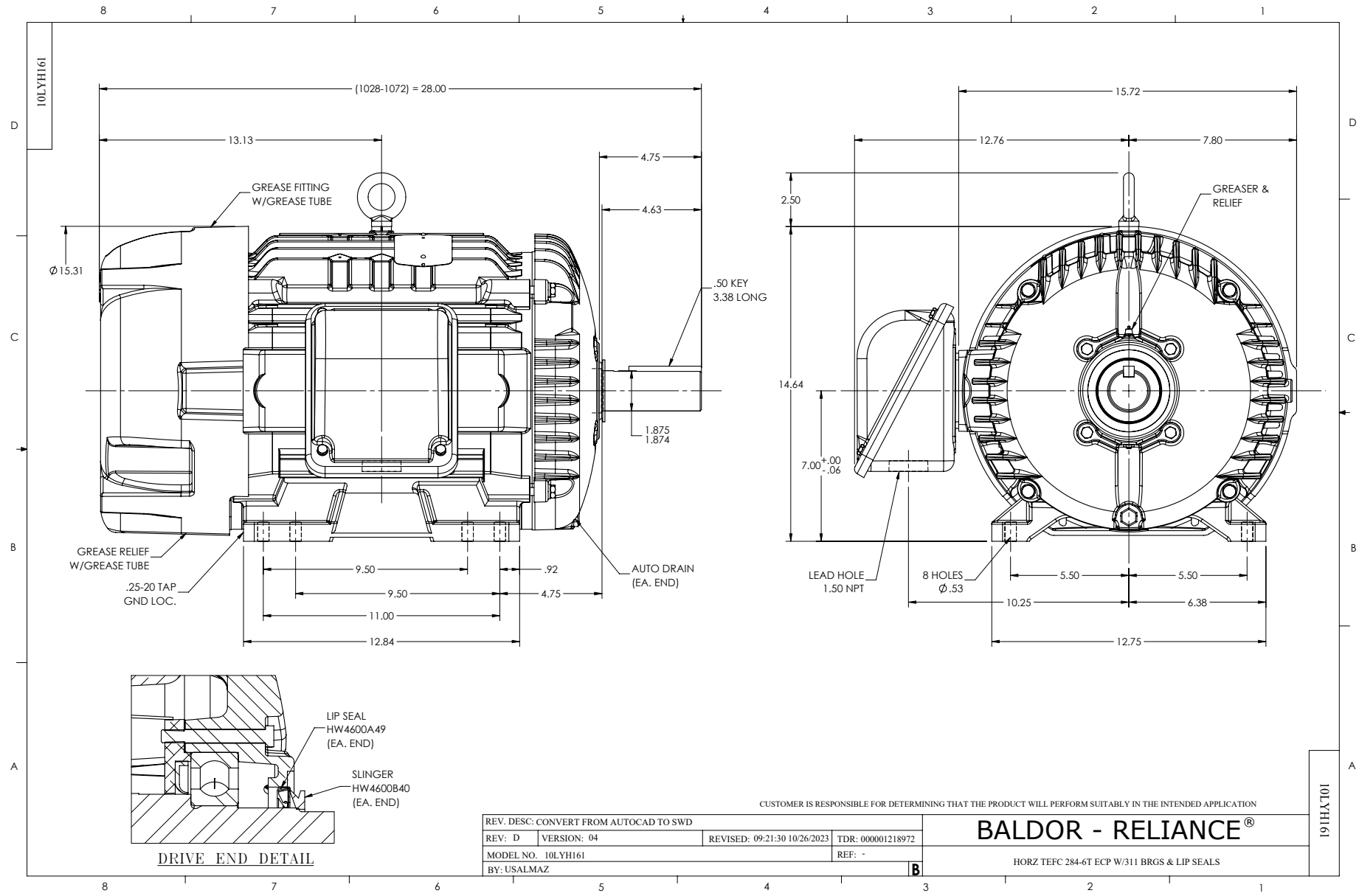
WINDING # 10WGW469

7.5 HP 3 PH 60 HZ 889 RPM 460 V 1050M

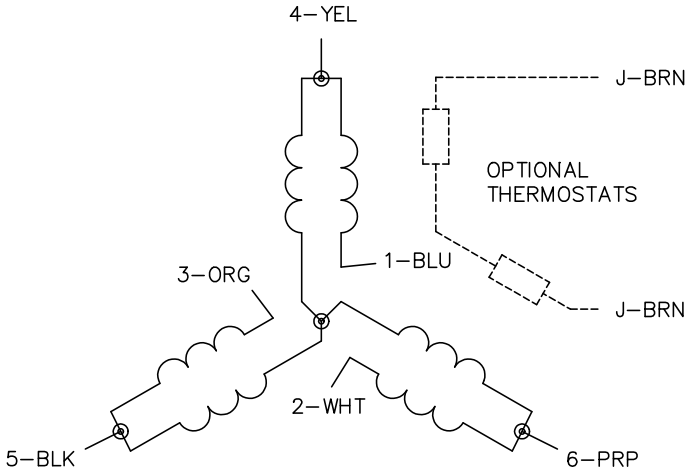
TORQUES(LB-FT): PO=89 PU=50 LR=68 LRA=55

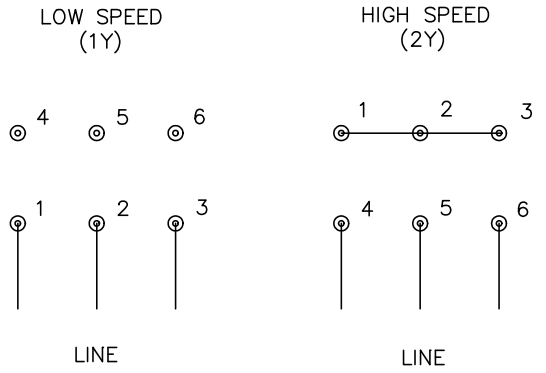
Typical performance - not guaranteed values.




10LYH161
(1028-1072) = 28.00
13.13
4.75
4.63
GREASE FITTING
W/GREASE TUBE
Ø15.31
.50 KEY
3.38 LONG
1.875
1.874
GREASE RELIEF
W/GREASE TUBE
.25-20 TAP
GND LOC.
9.50
.92
9.50
4.75
11.00
12.84
AUTO DRAIN
(EA. END)
15.72
12.76
7.80
2.50
GREASER &
RELIEF
14.64
7.00 +.00 -.06
LEAD HOLE
1.50 NPT
8 HOLES
Ø.53
5.50
5.50
10.25
6.38
12.75
LIP SEAL
HW4600A49
(EA. END)
SLINGER
HW4600B40
(EA. END)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: D
VERSION: 04
REVISED: 09:21:30 10/26/2023
TDR: 000001218972
MODEL NO. 10LYH161
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ TEFC 284-6T ECP W/311 BRGS & LIP SEALS
10LYH161

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.

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

CD0032