

ABB BALDOR RELIANCE III

Customer information packet

CTM1764T

30/7.5HP, 1760/870RPM, 3PH, 60HZ, 286T, 1050M

Class - None

Division - Not Applicable

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	No-load Current		12.7 A	
Service Factor (S.F.)		1.15	Line-line Res. @ 25°C		0.318 Ω	
NEMA Nom. Eff.		0	Power Factor		0	
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

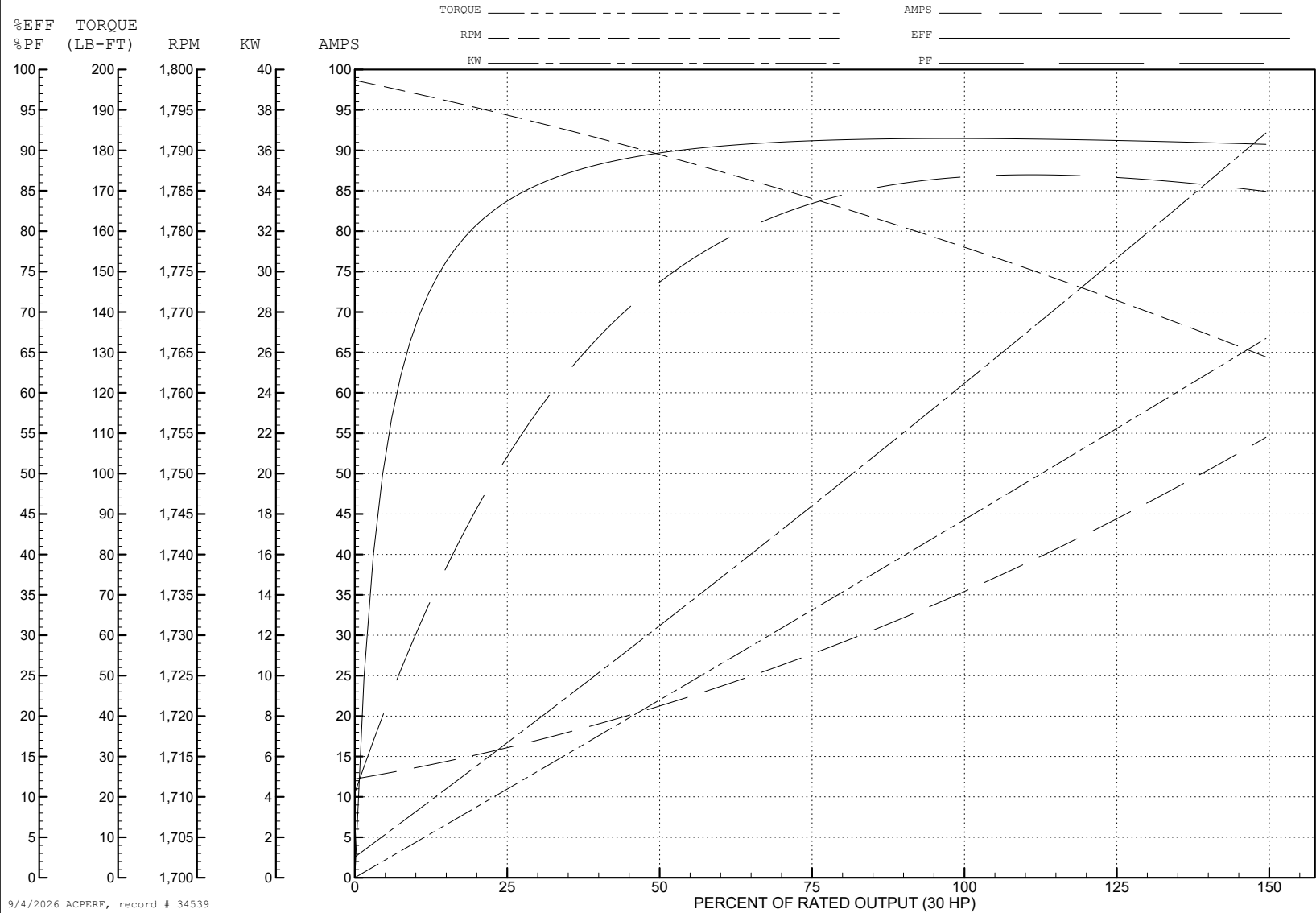
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WINDING # 10WGW469

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1778 RPM 460 V 1050M

TORQUES (LB-FT): PO=200 PU=119 LR=162 LRA=213



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. @ 25°C		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

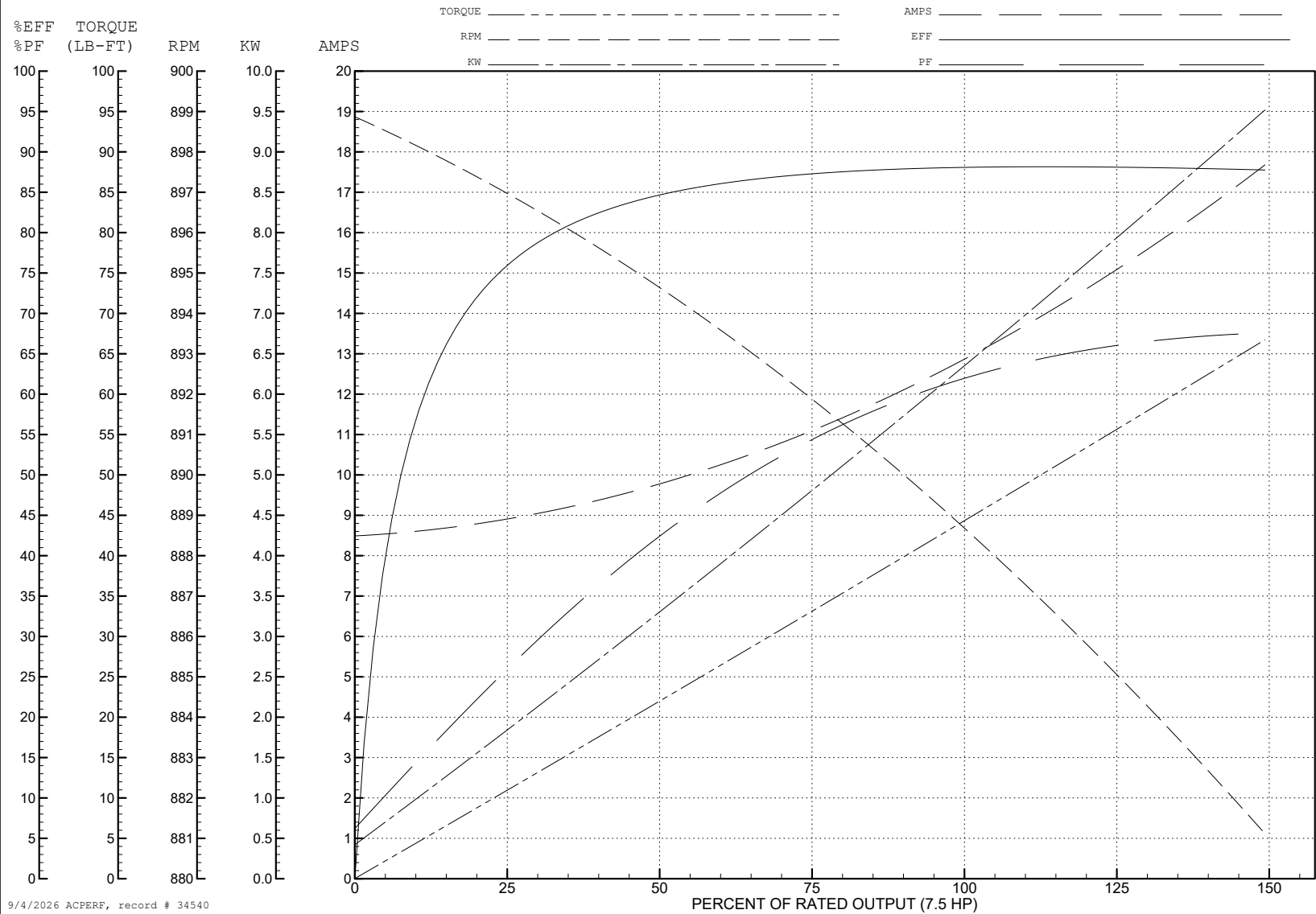
ABB Motors and Mechanical Inc.

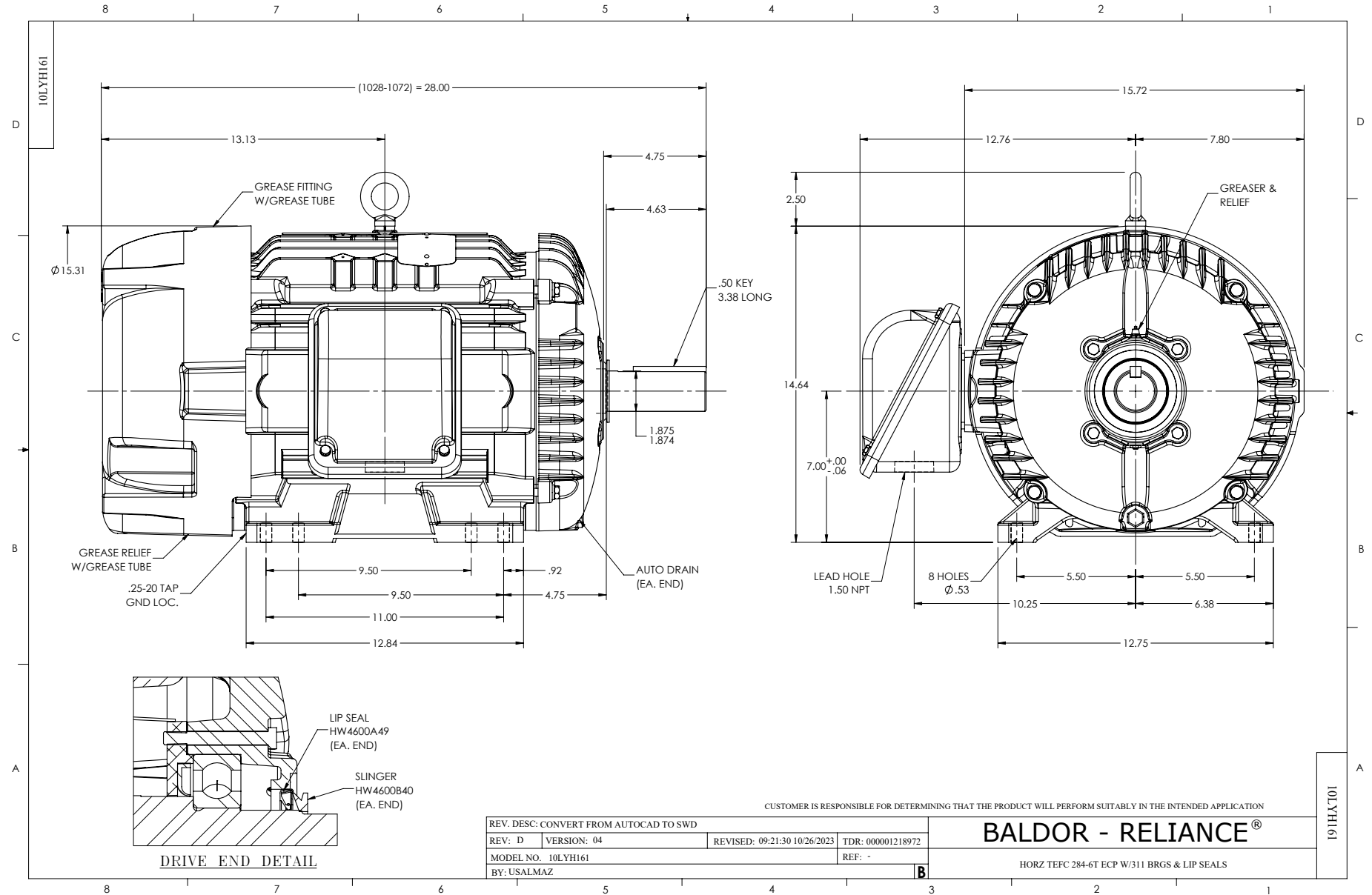
WINDING # 10WGW469

Typical performance - not guaranteed values.

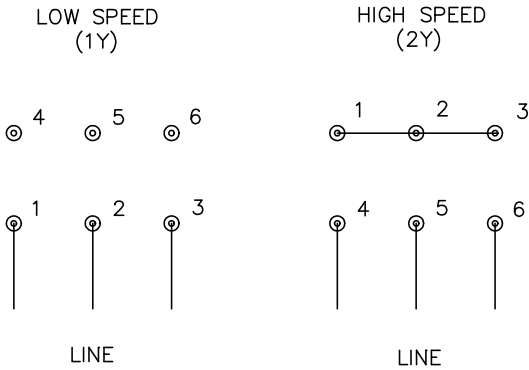
7.5 HP 3 PH 60 HZ 889 RPM 460 V 1050M

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





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			
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032