ABB BALDOR RELIANCE

Customer information packet

ECTM3582T-G

1HP, 1170RPM, 3PH, 60HZ, 145T, 0526M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
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	3.000 A @ 230.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	Drilled And Tapped Hole
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	1.5 a
Insulation Class	F

Part Detail

Revision	-
Type	AC
Mech. spec.	05G440
Base	
Status	PRD/A
Elec. spec.	05WGX571
Layout	05LYG440
Eff. date	06-22-2023
CD Diagram	CD0005
Poles	06
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.82 IN
Power Factor	67
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1170 rpm
Speed Code	Single Speed
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

NP1260									
CAT.NO.	ECTM3582T-G								
SPEC.	05G440X571G1								
HP	1								
VOLTS	230/460								
AMP	3/1.5								
RPM	1170								
FRAME	145T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	B		**CL**	F	
NEMA-NOM-EFF	82.5	**PF**	67						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	INV DUTY 20:1 VT								

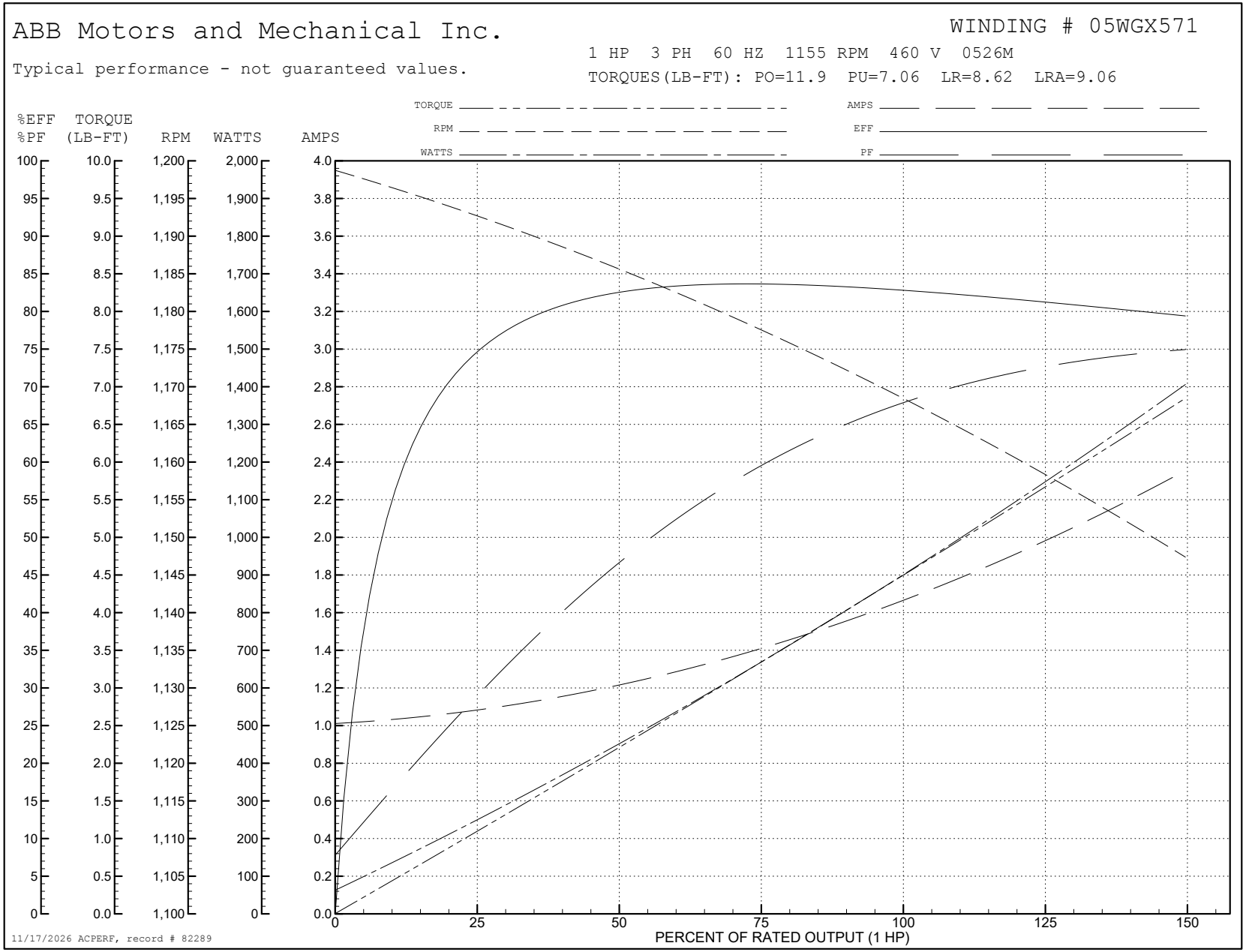
AC Induction Motor Performance Data
Record # 82289
Typical performance - not guaranteed values

Winding: 05WGX571-R001	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	4.479 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.4/1.7	**Breakdown Torque**	11.9 LB-FT
R.P.M.			1155	**Pull-up Torque**	7.06 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.62 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	9.06 A
Service Factor (S.F.)			1.15	**No-load Current**	1.02 A
NEMA Nom. Eff.	82.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	20.372 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	48.3

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	47	1	1	1	1	1
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1	82.2
Speed	1192.5	1185.4	1177.6	1168.7	1159	1147	1163
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35	1.86


ABB Motors and Mechanical Inc.
WINDING # 05WGX571
Typical performance - not guaranteed values.
1 HP 3 PH 60 HZ 1155 RPM 460 V 0526M
TORQUES(LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/17/2026 ACPERF, record # 82289

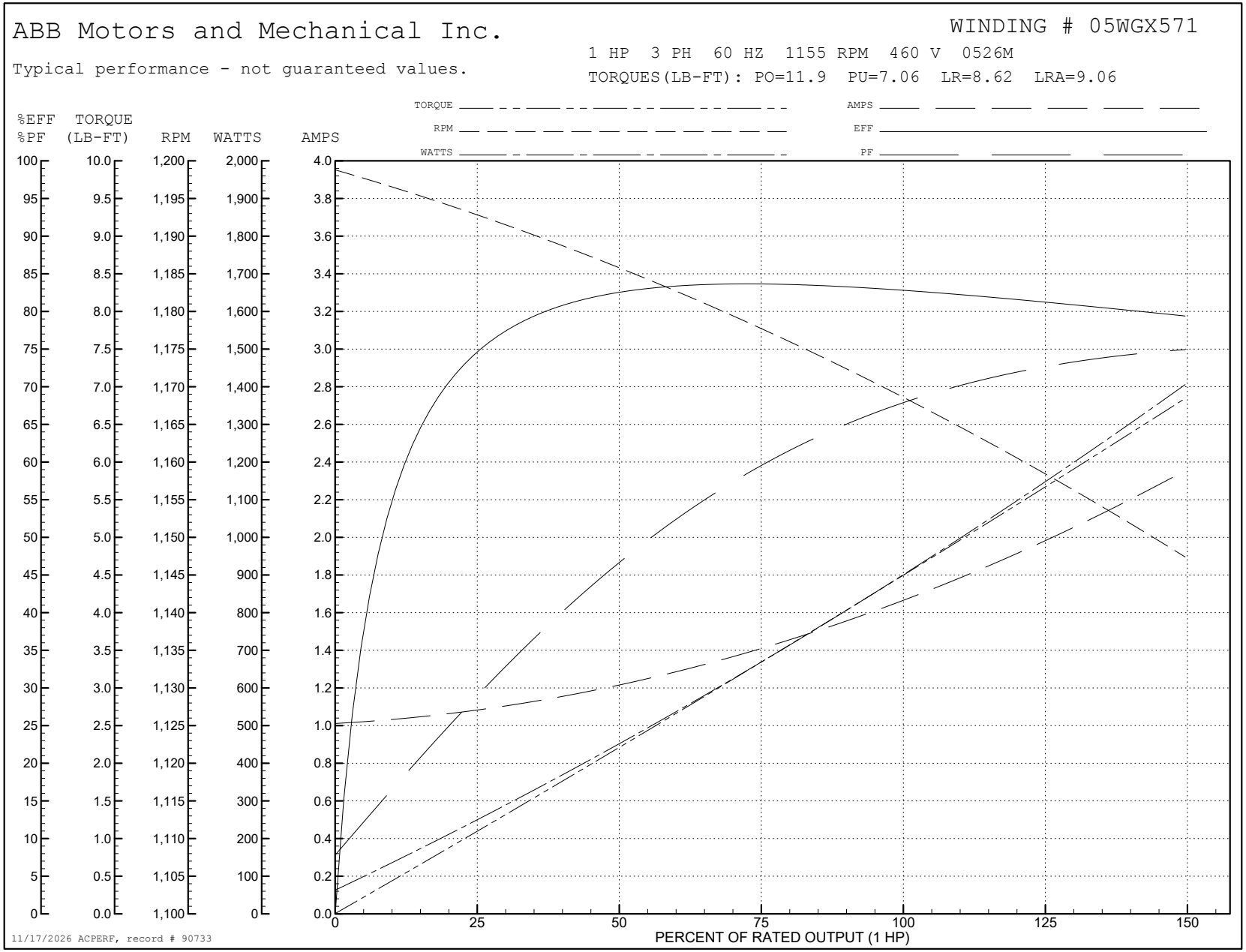
AC Induction Motor Performance Data
Record # 90733
Typical performance - not guaranteed values

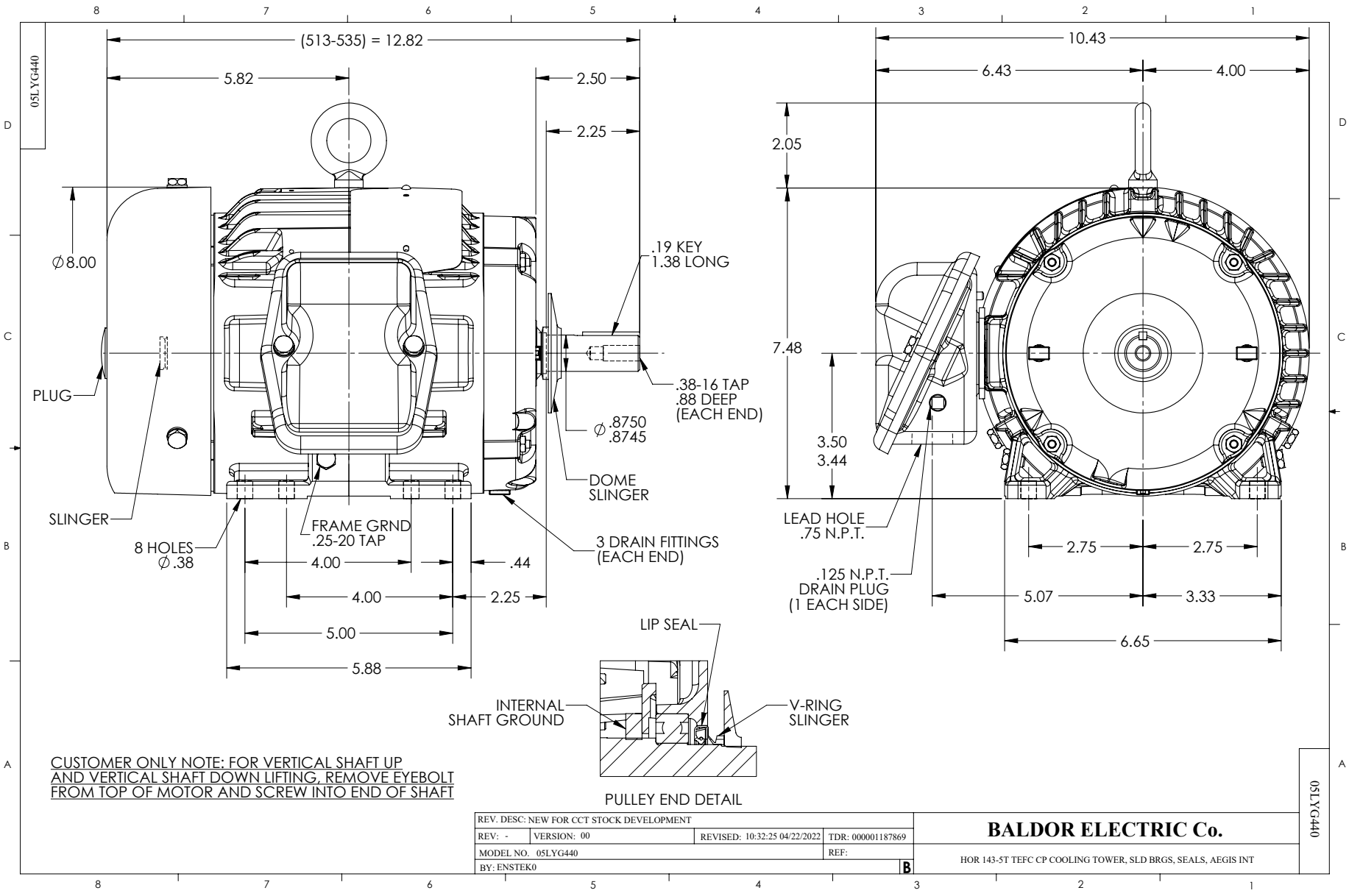
Winding: 05WGX571-R006	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	4.48 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.4/1.7	**Breakdown Torque**	11.9 LB-FT
R.P.M.			1155	**Pull-up Torque**	7.06 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.62 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	9.06 A
Service Factor (S.F.)			1.15	**No-load Current**	1.02 A
NEMA Nom. Eff.	82.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	21.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	48.3025
				Rotor inertia	0.189 lb-ft²

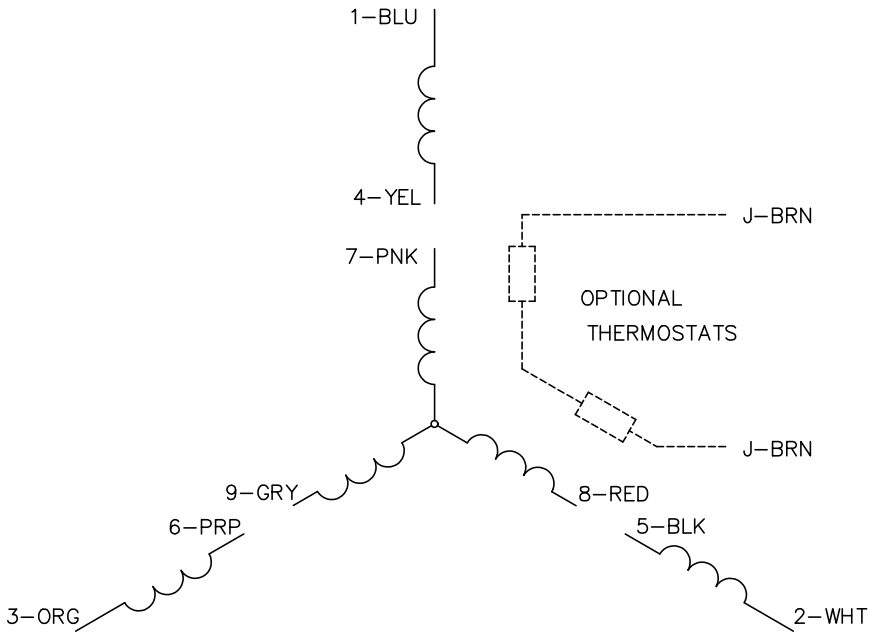
Load Characteristics 460 V, 60 Hz, 1 HP

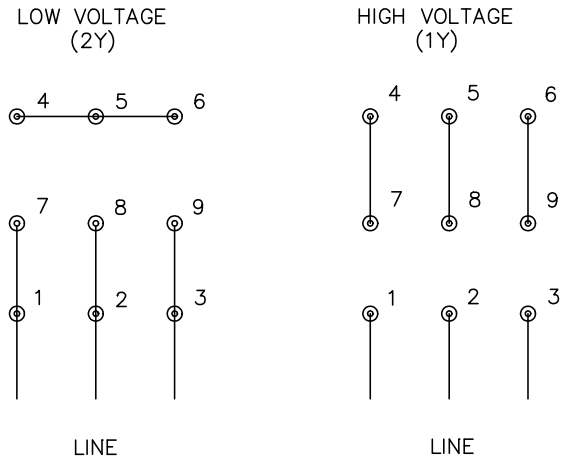
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	47	59	67	72	75	70
Efficiency	73.6	81.7	83.5	83.2	81.6	79.1	82.2
Speed	1193	1185	1178	1169	1159	1147	1163
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35	1.86


ABB Motors and Mechanical Inc.
WINDING # 05WGX571
Typical performance - not guaranteed values.
1 HP 3 PH 60 HZ 1155 RPM 460 V 0526M
TORQUES(LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/17/2026 ACPERF, record # 90733


05LYG440
(513-535) = 12.82
5.82
2.50
2.25
∅8.00
.19 KEY
1.38 LONG
PLUG
.38-16 TAP
.88 DEEP
(EACH END)
∅ .8750
.8745
DOME
SLINGER
SLINGER
8 HOLES
∅.38
FRAME GRND
.25-20 TAP
3 DRAIN FITTINGS
(EACH END)
4.00
.44
4.00
2.25
5.00
5.88
10.43
6.43
4.00
2.05
7.48
3.50
3.44
LEAD HOLE
.75 N.P.T.
.125 N.P.T.
DRAIN PLUG
(1 EACH SIDE)
2.75
2.75
5.07
3.33
6.65
LIP SEAL
INTERNAL
SHAFT GROUND
V-RING
SLINGER
PULLEY END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP
AND VERTICAL SHAFT DOWN LIFTING, REMOVE EYEBOLT
FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT
REV. DESC: NEW FOR CCT STOCK DEVELOPMENT
REV: - VERSION: 00 REVISED: 10:32:25 04/22/2022 TDR: 000001187869
MODEL NO. 05LYG440 REF:
BY: ENSTEK0 B
BALDOR ELECTRIC Co.
HOR 143-5T TEFC CP COOLING TOWER, SLD BRGS, SEALS, AEGIS INT
05LYG440

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS