ABB BALDOR RELIANCE

Customer information packet

ECP3584T

1.5HP, 1755RPM, 3PH, 60HZ, 145T, 0530M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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
Constant Torque Speed Range	1.3
Current @ Voltage	4.300 A @ 208.0 V
	4.100 A @ 230.0 V
	2.050 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %

Part Detail

Revision	F
Type	AC
Mech. spec.	05F008
Base	
Status	PRD/A
Elec. spec.	05WGX902
Layout	05LYF008
Eff. date	08-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-21-2022

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.88 IN
Power Factor	83
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1755 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

NP3258								
CAT.NO.	ECP3584T							
SPEC.	05F008X902G2							
HP	1.5 TE							
VOLTS	208-230/460							
AMP	4.6-4.4/2.2							
RPM	1760							
FRAME	145T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	M	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6205	**ODE**	6205					
NEMA-NOM-EFF	86.5	**PF**	72					
G.MIN.EFF	84	**CC**	010A					
T. CODE	T4	**T=**	135					

NP3261					
SPEC.	05F008X902G2				
D.E. BRG.	25BC02XP30X				
O.D.E. BRG.	25BC02XP30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**			
BLANK	SFA 4.8-4.6/2.3				
INV.TYPE	PWM				
T=	135				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1.3	**CT HZ TO**	60		
VT HZ FROM	0-	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

Accessories

Part number	Description	Multiplier
35-1300	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 102445
Typical performance - not guaranteed values

Winding: 05WGX902-R001	**Type:** 0530M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.496 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			4.6-4.4/2.2	**Breakdown Torque**	21.2 LB-FT
R.P.M.			1760	**Pull-up Torque**	14.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	19.7 A
Service Factor (S.F.)			1.15	**No-load Current**	1.41 A
NEMA Nom. Eff.	86.5	**Power Factor**	72	**Line-line Res. @ 25ºC**	10.007 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps			5.2-5/2.5	**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	59.9
				Rotor inertia	0.217 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	51	64	72	78	81	76
Efficiency	76.4	84.6	86.9	87.3	86.8	85.8	87
Speed	1789.3	1779.7	1769.5	1758.8	1747.1	1734.7	1752
Line amperes	1.47	1.65	1.91	2.23	2.6	3.01	2.45

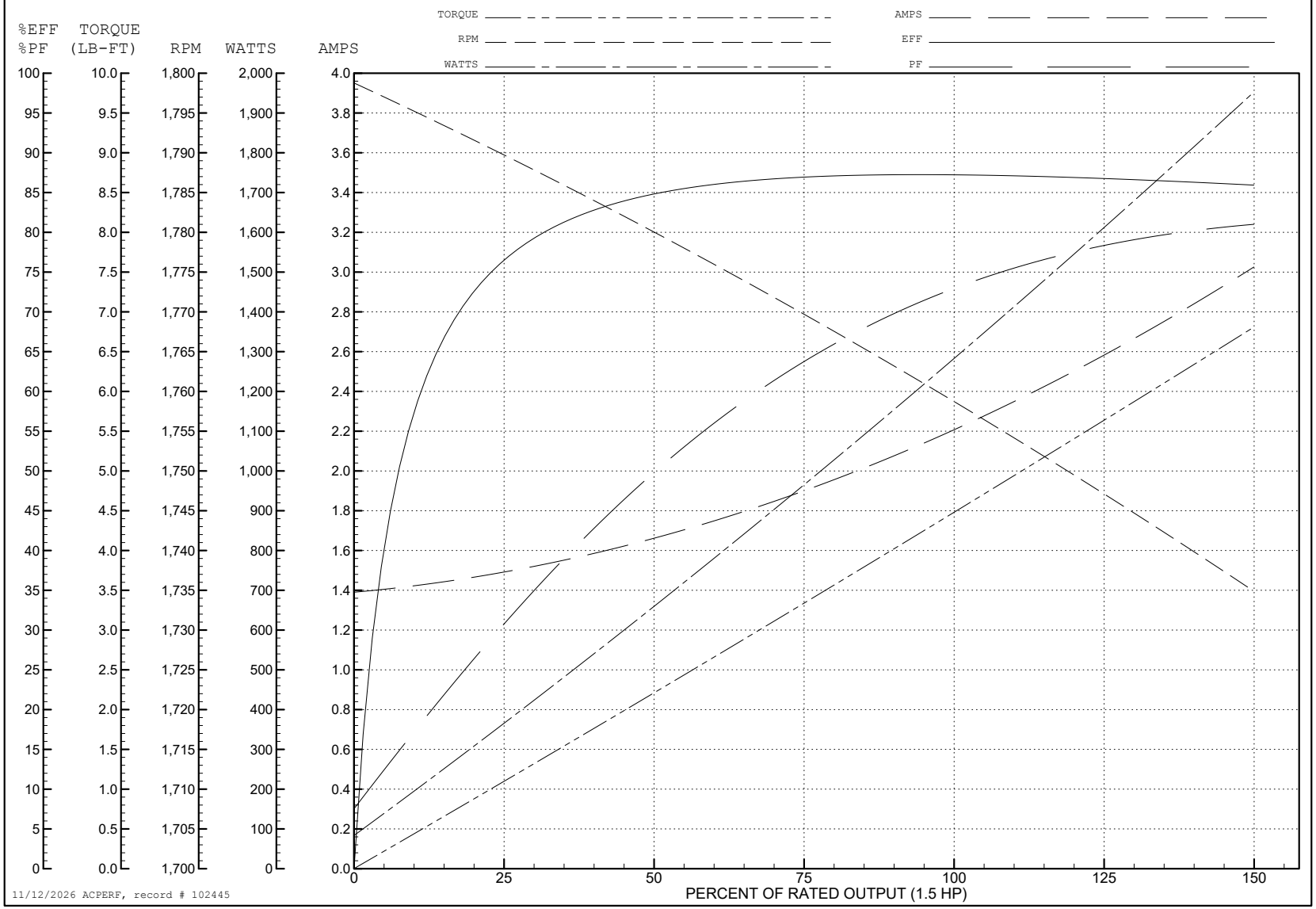
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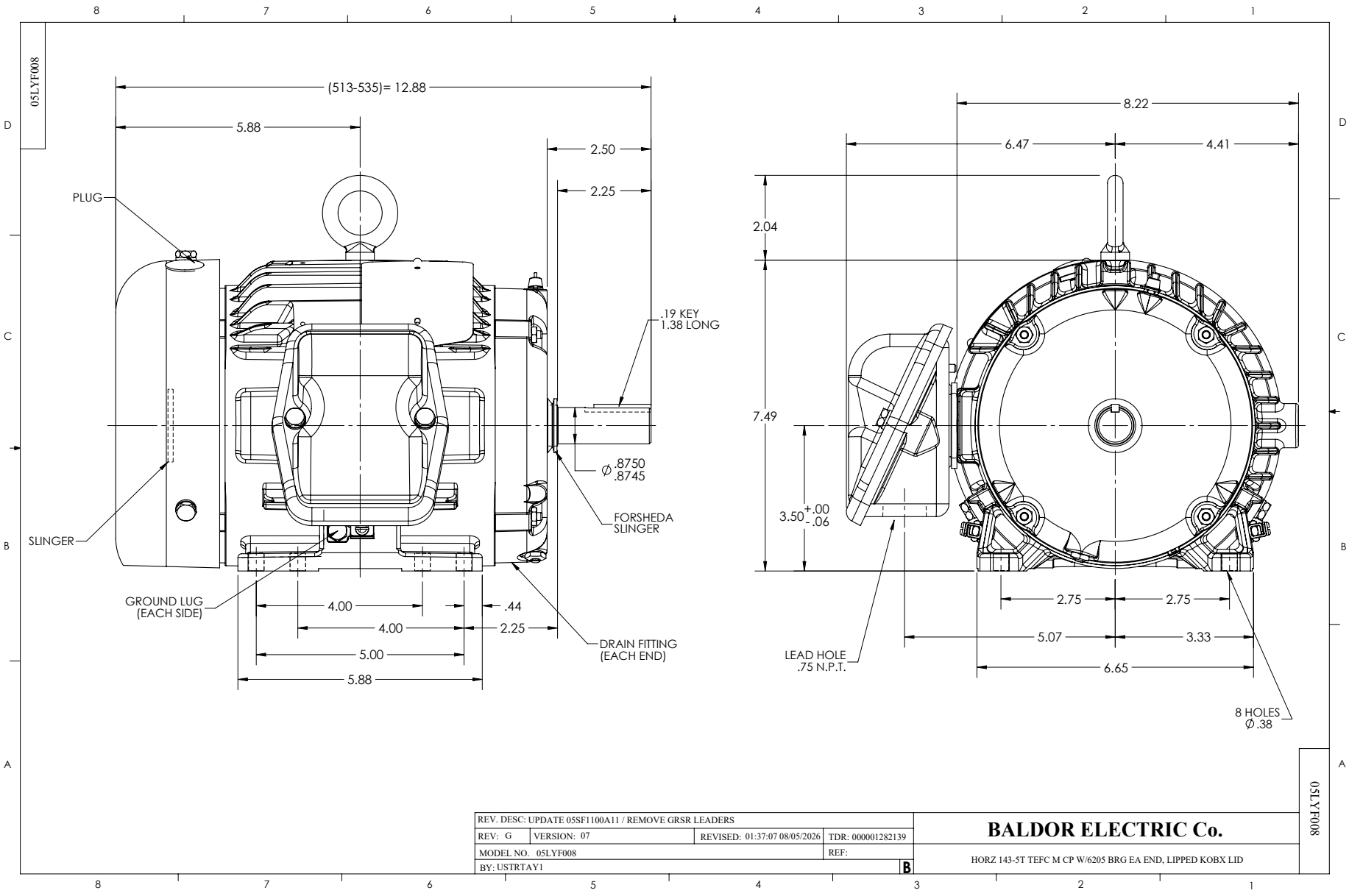
WINDING # 05WGX902

1.5 HP 3 PH 60 HZ 1760 RPM 460 V 0530M

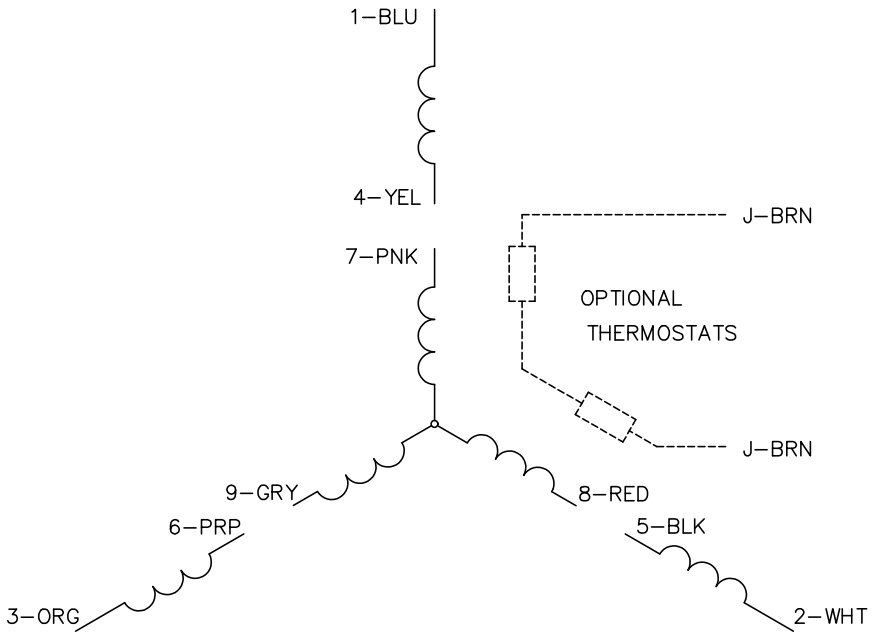
Typical performance - not guaranteed values.

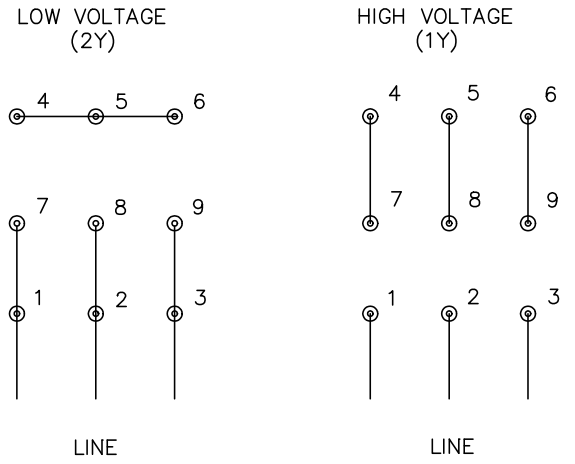
TORQUES(LB-FT): PO=21.2 PU=14.4 LR=16 LRA=19.7




05LYF008
(513-535)= 12.88
5.88
2.50
2.25
PLUG
.19 KEY
1.38 LONG
SLINGER
Ø .8750
.8745
FORSHEDA
SLINGER
GROUND LUG
(EACH SIDE)
4.00
.44
4.00
2.25
5.00
5.88
DRAIN FITTING
(EACH END)
8.22
6.47
4.41
2.04
7.49
3.50 +.00 -.06
2.75
2.75
5.07
3.33
6.65
LEAD HOLE
.75 N.P.T.
8 HOLES
Ø .38
REV. DESC: UPDATE 05SF1100A11 / REMOVE GRSR LEADERS
REV: G
VERSION: 07
REVISED: 01:37:07 08/05/2026
TDR: 000001282139
MODEL NO. 05LYF008
REF:
BY: USTRTAY1
B
BALDOR ELECTRIC Co.
HORZ 143-5T TEFC M CP W/6205 BRG EA END, LIPPED KOBX LID
05LYF008

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