



Customer information packet

ECP3771T-5

10HP, 3500RPM, 3PH, 60HZ, 215T, 0742M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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	6
Current @ Voltage	8.900 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	R
Type	AC
Mech. spec.	07K374
Base	
Status	PRD/A
Elec. spec.	07WGY788
Layout	07LYK374
Eff. date	06-25-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	06-11-2013

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.50 IN
Power Factor	90
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

NP3257									
CAT.NO.	ECP3771T-5								
SPEC.	07K374Y788G1								
HP	10 TE								
VOLTS	575								
AMP	8.9								
RPM	3500								
FRAME	215T		HZ	60		PH	3		
SER.F.	1.15	CODE	H	DES	B	CL	F		
RATING	40C AMB-CONT								
SN									
DE	6307		ODE	6307					
NEMA-NOM-EFF	92.4		PF	90					
G.MIN.EFF	91.0		CC	010A					
T. CODE	T3C		T=	160					

NP3260			
SPEC.	07K374Y788G1		
D.E. BRG.	35BC03XP30X		
O.D.E. BRG.	35BC03XP30X		
GREASE	POLYREX EM		
RPM MAX	5400	MAX. KVAR	N/A
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	6	CT HZ TO	60
VT HZ FROM	3	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 47081

Typical performance - not guaranteed values

Winding: 07WGY788-R012		Type: 0742M	Enclosure: TEFC
Nameplate Data		575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	10	Full Load Torque	14.9 LB-FT
Volts	575	Start Configuration	direct on line
Full Load Amps	8.9	Breakdown Torque	69.3 LB-FT
R.P.M.	3500	Pull-up Torque	23.7 LB-FT
Hz	60 Phase	Locked-rotor Torque	31.9 LB-FT
NEMA Design Code	B KVA Code	Starting Current	69.3 A
Service Factor (S.F.)	1.15	No-load Current	2.81 A
NEMA Nom. Eff.	92.4 Power Factor	Line-line Res. @ 25°C	1.19 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	40°C
S.F. Amps		Temp. Rise @ S.F. Load	50°C
		Locked-rotor Power Factor	30.1
		Rotor inertia	0.383 LB-FT ²

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	59	80	88	91	92	91	92
Efficiency	90.2	92.5	92.8	92.3	91.1	89.6	91.6
Speed	3578	3554	3528	3502	3472	3438	3484
Line amperes	3.49	5.01	6.87	8.86	11.1	13.7	10.2

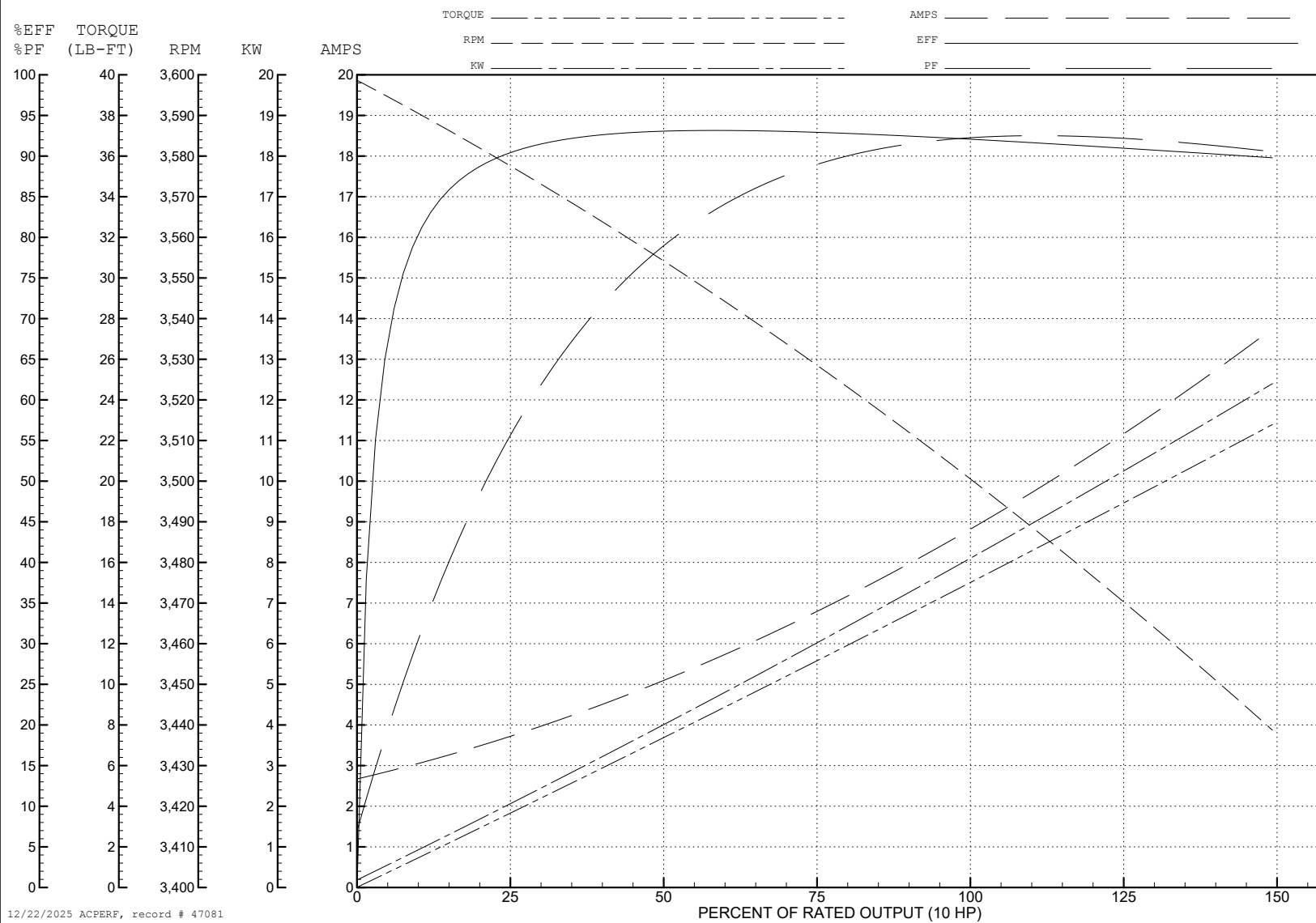
ABB Motors and Mechanical Inc.

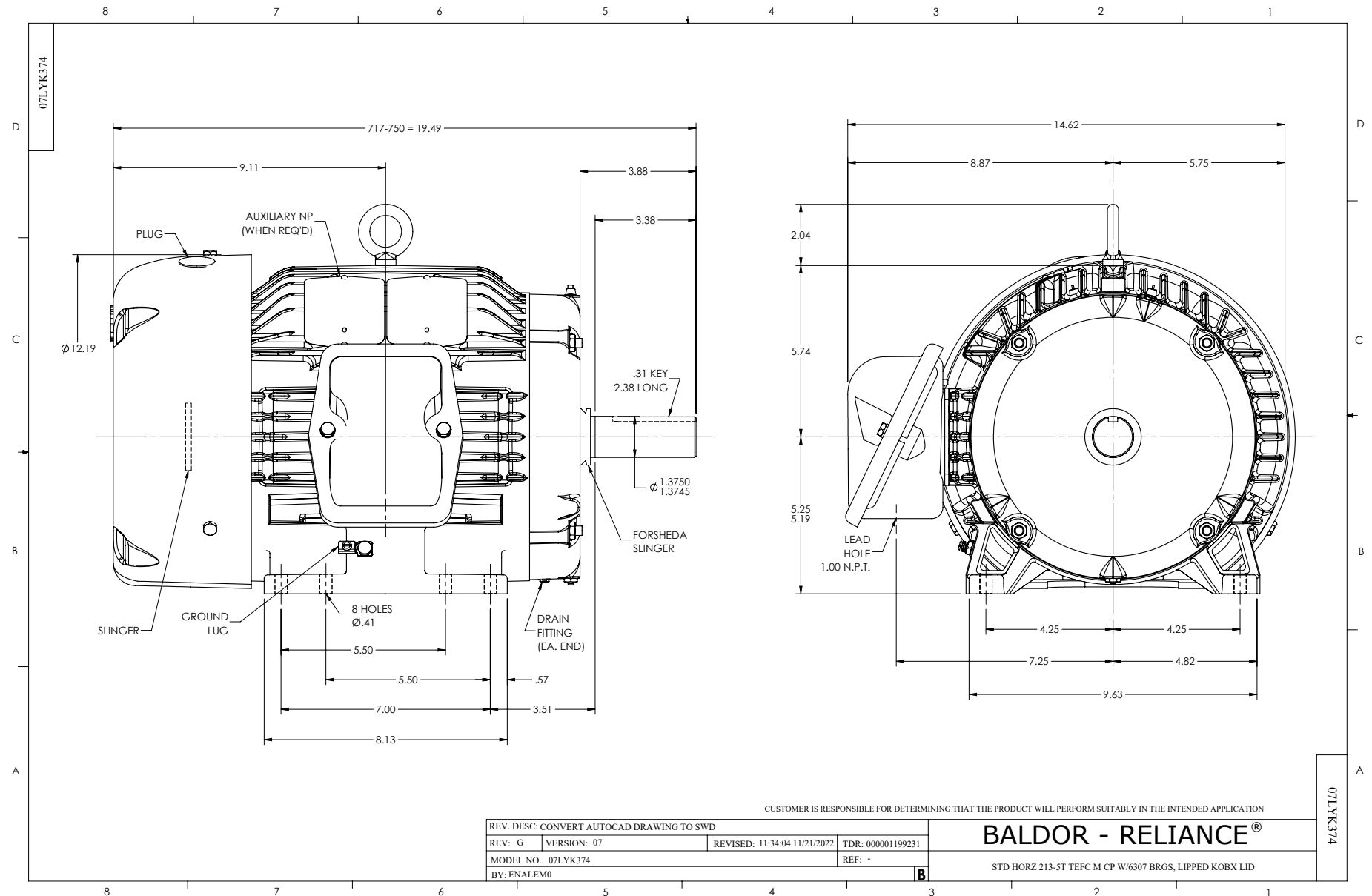
WINDING # 07WGY788

Typical performance - not guaranteed values.

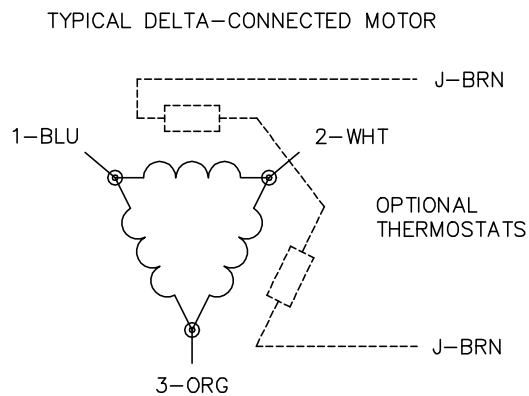
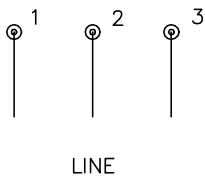
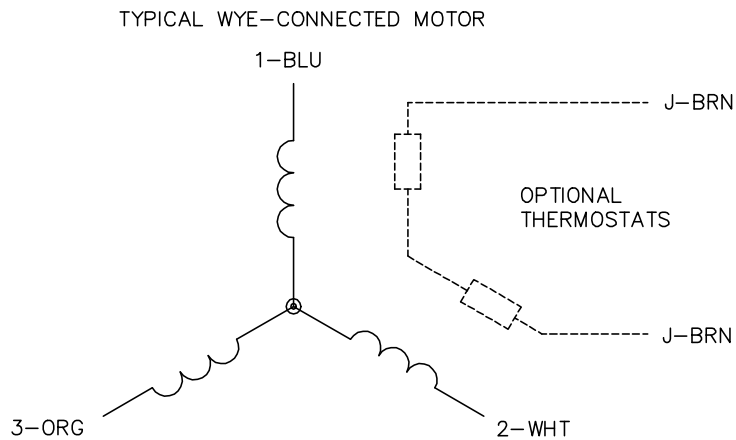
10 HP 3 PH 60 HZ 3500 RPM 575 V 0742M

TORQUES (LB-FT): PO=69.3 PU=23.7 LR=31.9 LRA=69.3





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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