ABB BALDOR RELIANCE

Customer information packet

ECP3774T-5

10HP, 1760RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	215T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	1.3
Current @ Voltage	10.000 A @ 575.0 V
Design Code	A
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	AA
Type	AC
Mech. spec.	07K374
Base	
Status	PRD/A
Elec. spec.	07WGX493
Layout	07LYK374
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	03-19-2009

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.50 IN
Power Factor	81
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	1760 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.	ECP3774T-5								
SPEC.	07K374X493								
HP	10 TE								
VOLTS	575								
AMP	10								
RPM	1760								
FRAME	215T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F		
RATING	40C AMB-CONT								
SN									
DE	6307	**ODE**	6307						
NEMA-NOM-EFF	92.4	**PF**	81						
G.MIN.EFF	91.0	**CC**	010A						
T. CODE	T3C	**T=**	160						

NP3260					
SPEC.	07K374X493				
D.E. BRG.	35BC03XP30X				
O.D.E. BRG.	35BC03XP30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**	1.9		
BLANK					
INV.TYPE	PWM				
T=	160				
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
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 47026
Typical performance - not guaranteed values

Winding: 07WGX493-R017	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.7 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			10	**Breakdown Torque**	87.4 LB-FT
R.P.M.			1760	**Pull-up Torque**	52.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	57.7 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	70.9 A
Service Factor (S.F.)			1.15	**No-load Current**	4.1 A
NEMA Nom. Eff.	92.4	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.44 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C
				Rotor inertia	1.18 LB-FT2

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	67	78	83	84	85	84
Efficiency	89.7	92.9	92.9	92.1	91.4	90.2	91.7
Speed	1790	1781	1771	1762	1750	1739	1755
Line amperes	4.67	6.02	7.8	9.82	12.2	14.6	11.2

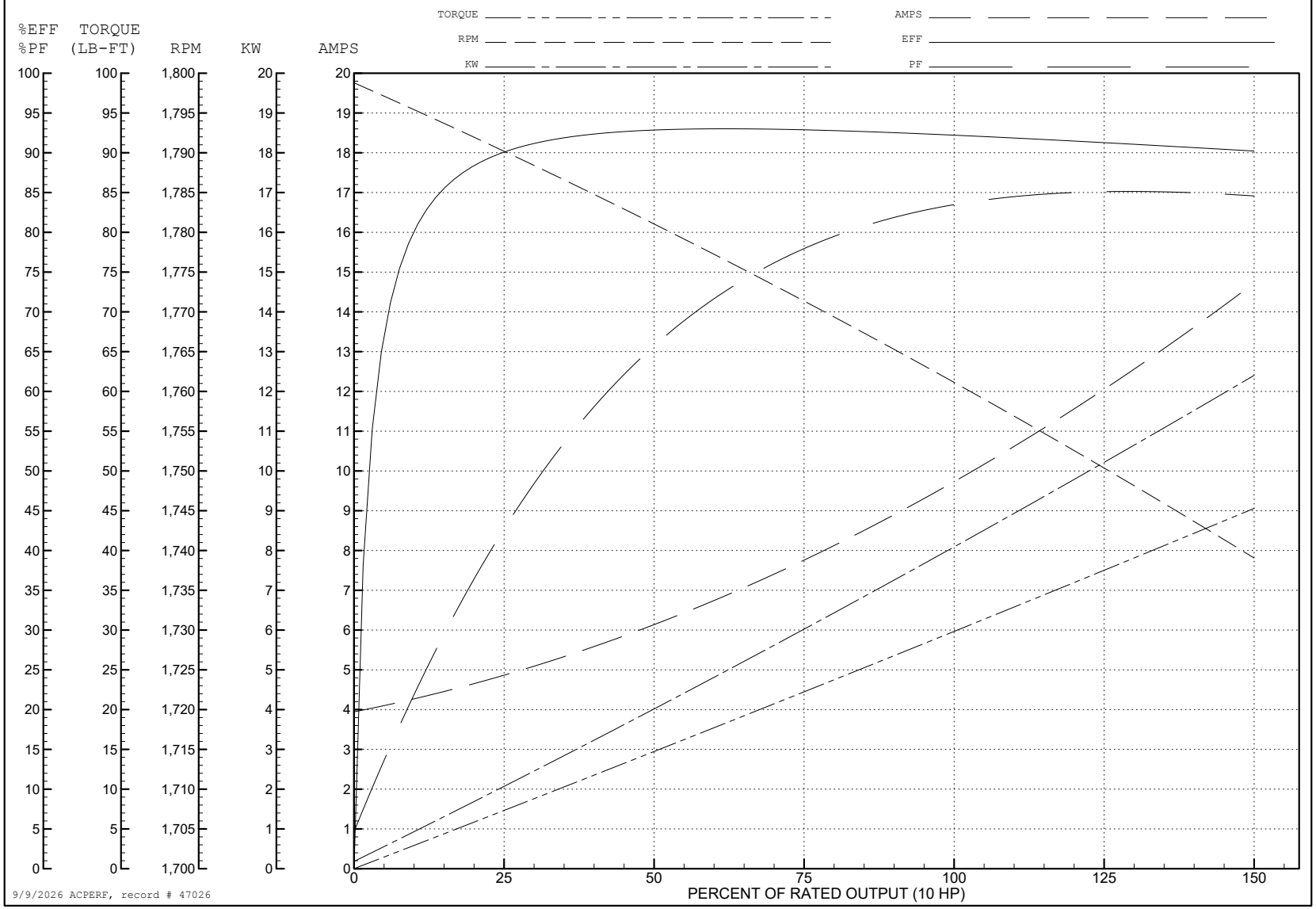
ABB Motors and Mechanical Inc.

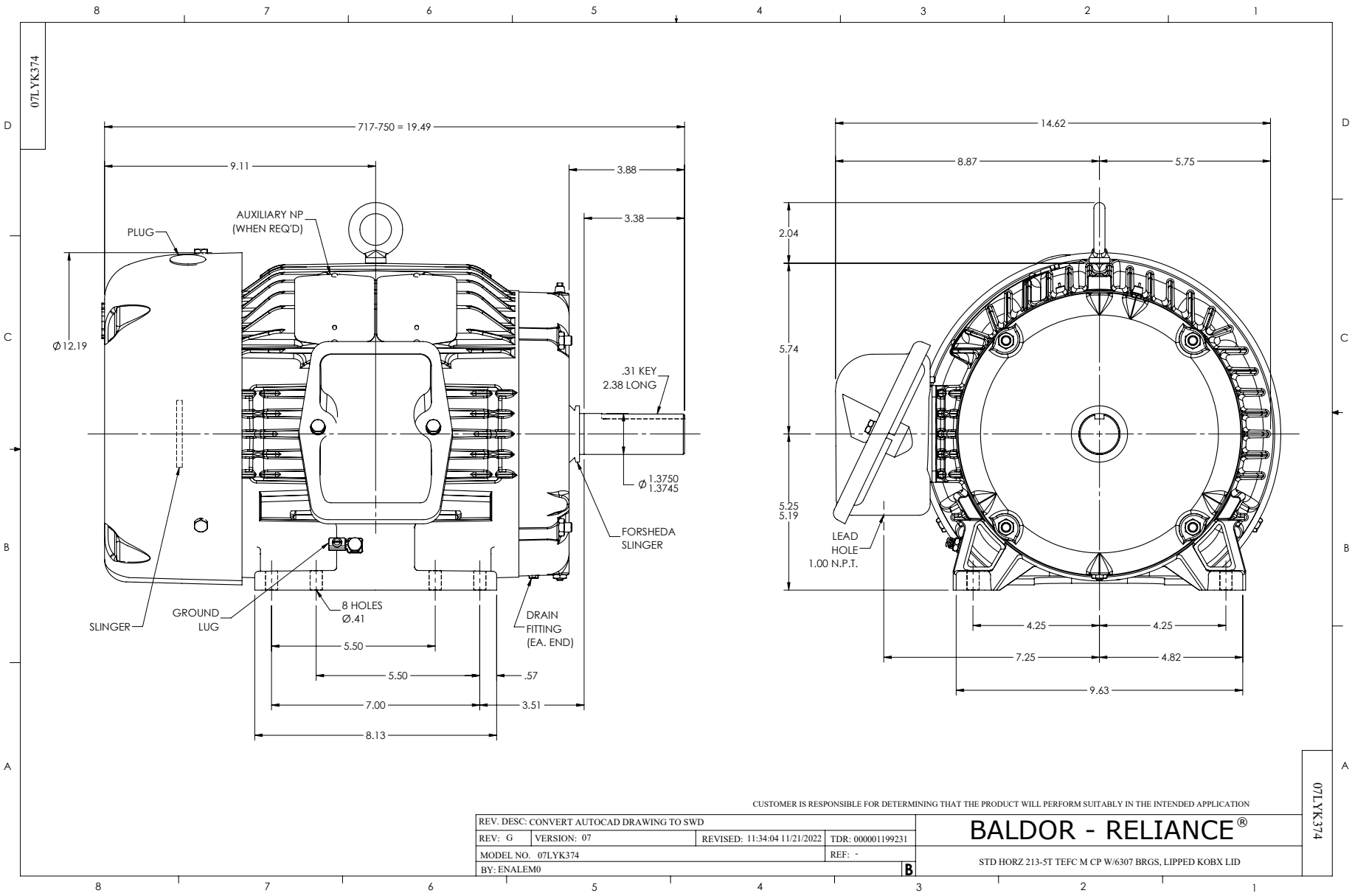
WINDING # 07WGX493

10 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

Typical performance - not guaranteed values.

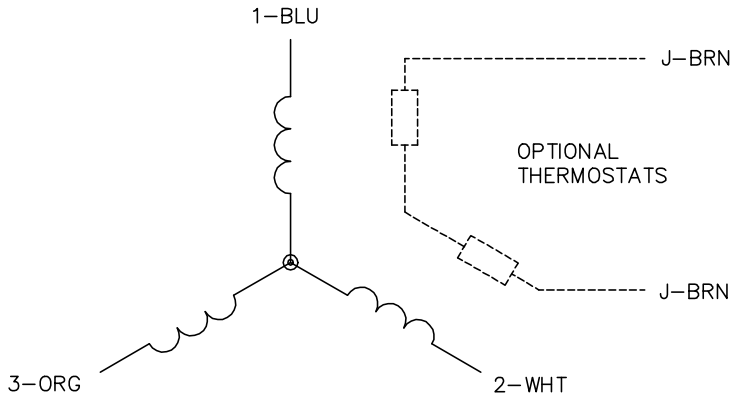
TORQUES(LB-FT): PO=87.4 PU=52.1 LR=57.7 LRA=70.9

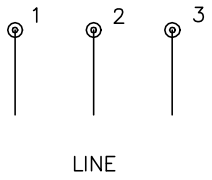



07LYK374
717-750 = 19.49
9.11
3.88
3.38
AUXILIARY NP
(WHEN REQ'D)
PLUG
Ø12.19
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
FORSHEDA
SLINGER
SLINGER
GROUND
LUG
8 HOLES
Ø.41
DRAIN
FITTING
(EA. END)
5.50
5.50
.57
7.00
3.51
8.13
14.62
8.87
5.75
2.04
5.74
5.25
5.19
LEAD
HOLE
1.00 N.P.T.
4.25
4.25
7.25
4.82
9.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: G
VERSION: 07
REVISED: 11:34:04 11/21/2022
TDR: 000001199231
MODEL NO. 07LYK374
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5T TEFC M CP W/6307 BRGS, LIPPED KOBX LID
07LYK374

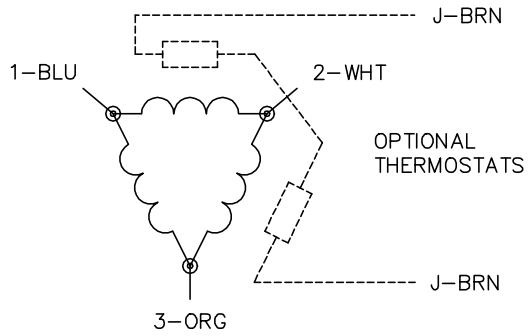
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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		
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FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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