ABB BALDOR RELIANCE

Customer information packet

ECP3770T

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 0738M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	213T
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
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
Current @ Voltage	9.500 A @ 460.0 V
	19.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	E
Type	AC
Mech. spec.	07K374
Base	
Status	PRD/A
Elec. spec.	07WGT510
Layout	07LYK374
Eff. date	10-01-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-28-2021

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.50 IN
Power Factor	81
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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.	ECP3770T							
SPEC.	07K374T510G1							
HP	7.5 TE							
VOLTS	230/460							
AMP	19/9.5							
RPM	1770							
FRAME	213T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6307	**ODE**	6307					
NEMA-NOM-EFF	91.7	**PF**	81					
G.MIN.EFF	90.2	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	07K374T510G1				
D.E. BRG.	35BC03XP30X				
O.D.E. BRG.	35BC03XP30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**	1.4		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1	**CT HZ TO**	60		
VT HZ FROM	0-	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

AC Induction Motor Performance Data
Record # 86631
Preliminary Data Sheet

Winding: 07WGT510-R004	**Type:** 0738M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			7.5
Volts			230/460
Full Load Amps			19/9.5
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	81
Rating - Duty			40C AMB-CONT
S.F. Amps			21.4/10.4

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	69.1 LB-FT
Pull-up Torque	28.7 LB-FT
Locked-rotor Torque	39.1 LB-FT
Starting Current	67.4 A
No-load Current	4.07 A
Line-line Res. @ 25ºC	1.55 Ω
Temp. Rise @ Rated Load	48°C
Temp. Rise @ S.F. Load	62°C
Locked-rotor Power Factor	41.2
Rotor inertia	0.934 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	66	76	81	84	85	83
Efficiency	88	91.7	92.2	91.7	90.7	89.3	90.9
Speed	1792	1785	1777	1769	1759	1749	1761
Line amperes	4.61	5.85	7.48	9.43	11.6	13.9	10.7

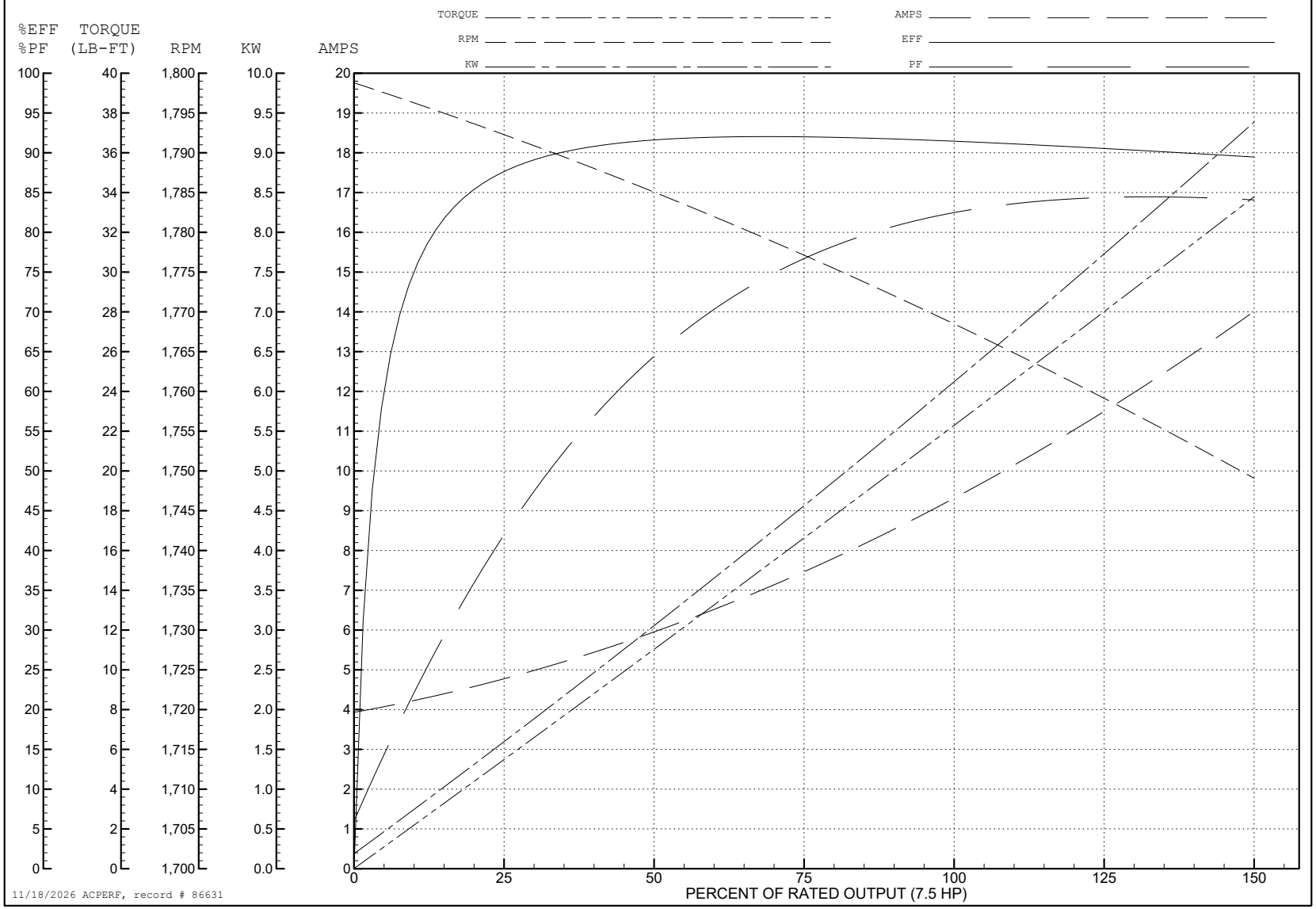
ABB Motors and Mechanical Inc.

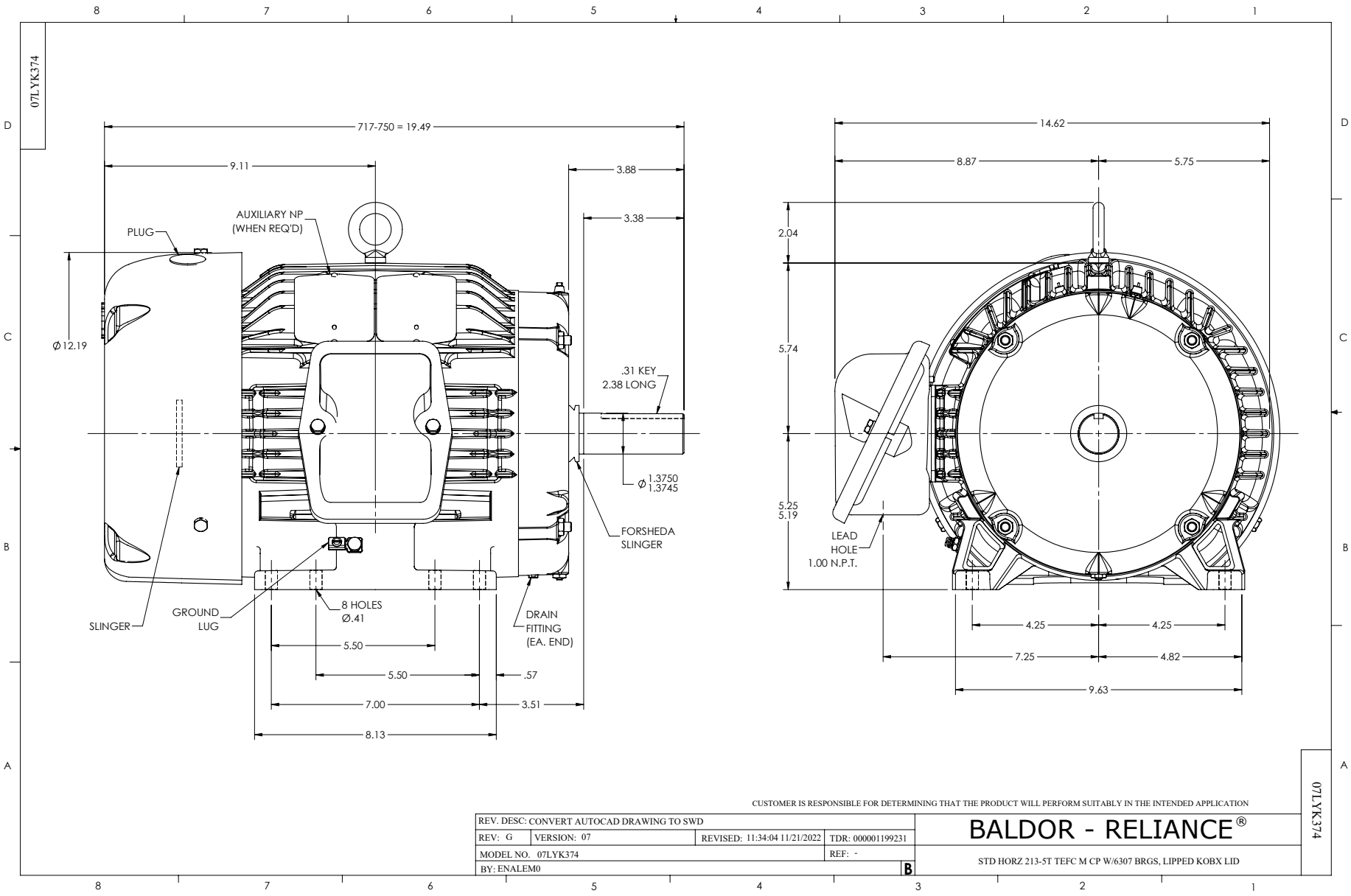
WINDING # 07WGT510

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0738M

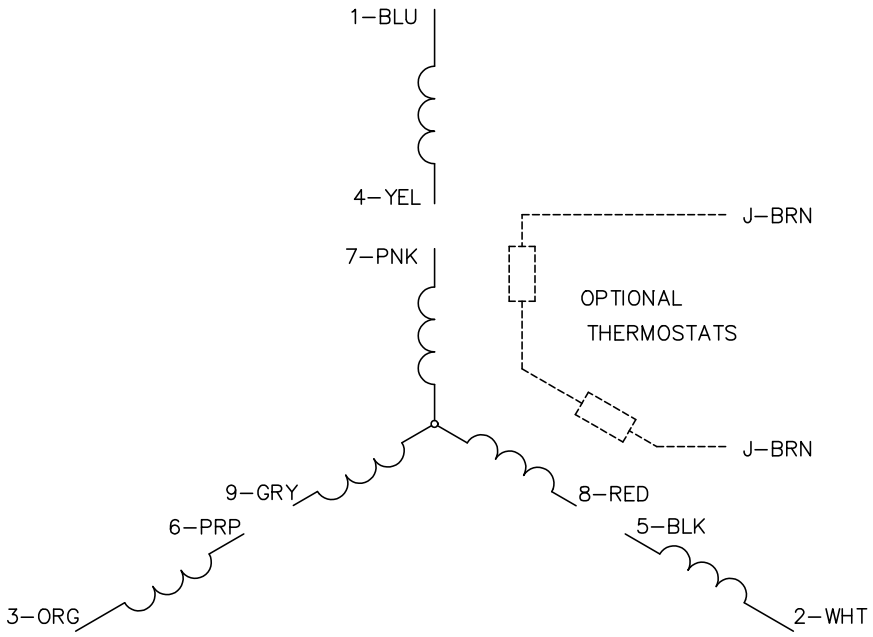
Typical performance - not guaranteed values.

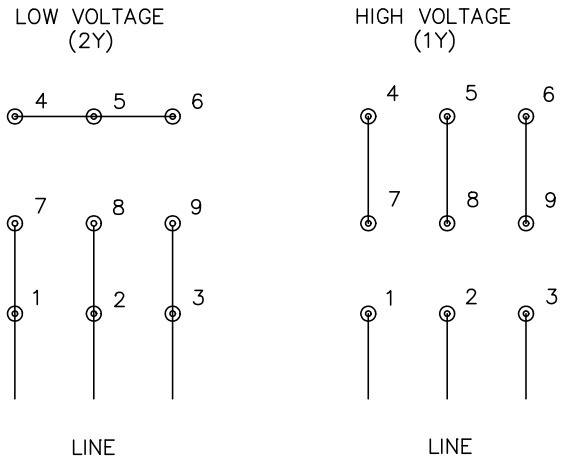
TORQUES(LB-FT): PO=69.1 PU=28.7 LR=39.1 LRA=67.4




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

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