ABB BALDOR RELIANCE

Customer information packet

CECP3771T

10HP, 3500RPM, 3PH, 60HZ, 215TC, 0742M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	215TC
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	3600 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	6
Current @ Voltage	24.500 A @ 208.0 V
	22.000 A @ 230.0 V
	11.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	S
Type	AC
Mech. spec.	07K373
Base	
Status	PRD/A
Elec. spec.	07WGY012
Layout	07LYK373
Eff. date	09-14-2022
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	11-28-2011

Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.24 IN
Power Factor	90
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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.	CECP3771T							
SPEC.	07K373Y012G1							
HP	10 TE							
VOLTS	230/460							
AMP	22/11							
RPM	3500							
FRAME	215TC	**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.	07K373Y012G1				
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 # 47063
Typical performance - not guaranteed values

Winding: 07WGY012-R046	**Type:** 0742M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	14.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			22/11	**Breakdown Torque**	70.8 LB-FT
R.P.M.			3500	**Pull-up Torque**	24.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	88.5 A
Service Factor (S.F.)			1.15	**No-load Current**	3.61 A
NEMA Nom. Eff.	92.4	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.776 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Rotor inertia	0.383 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	79	88	90	92	91	91
Efficiency	90.1	93	93.2	92.5	91.4	90	91.8
Speed	3578.4	3554.5	3528.7	3503.4	3473.7	3440.8	3486
Line amperes	4.43	6.32	8.64	11.1	13.9	17.1	12.8

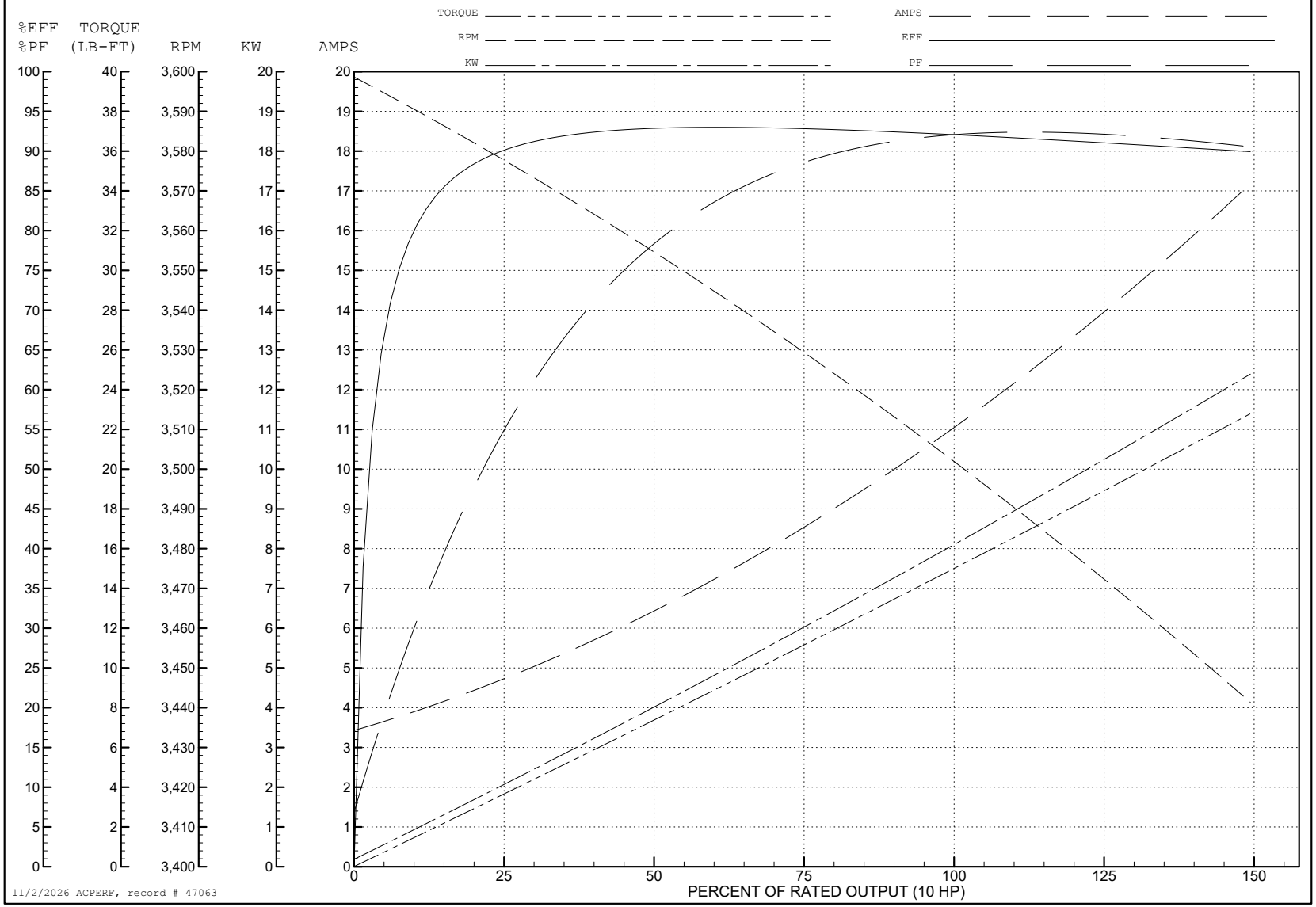
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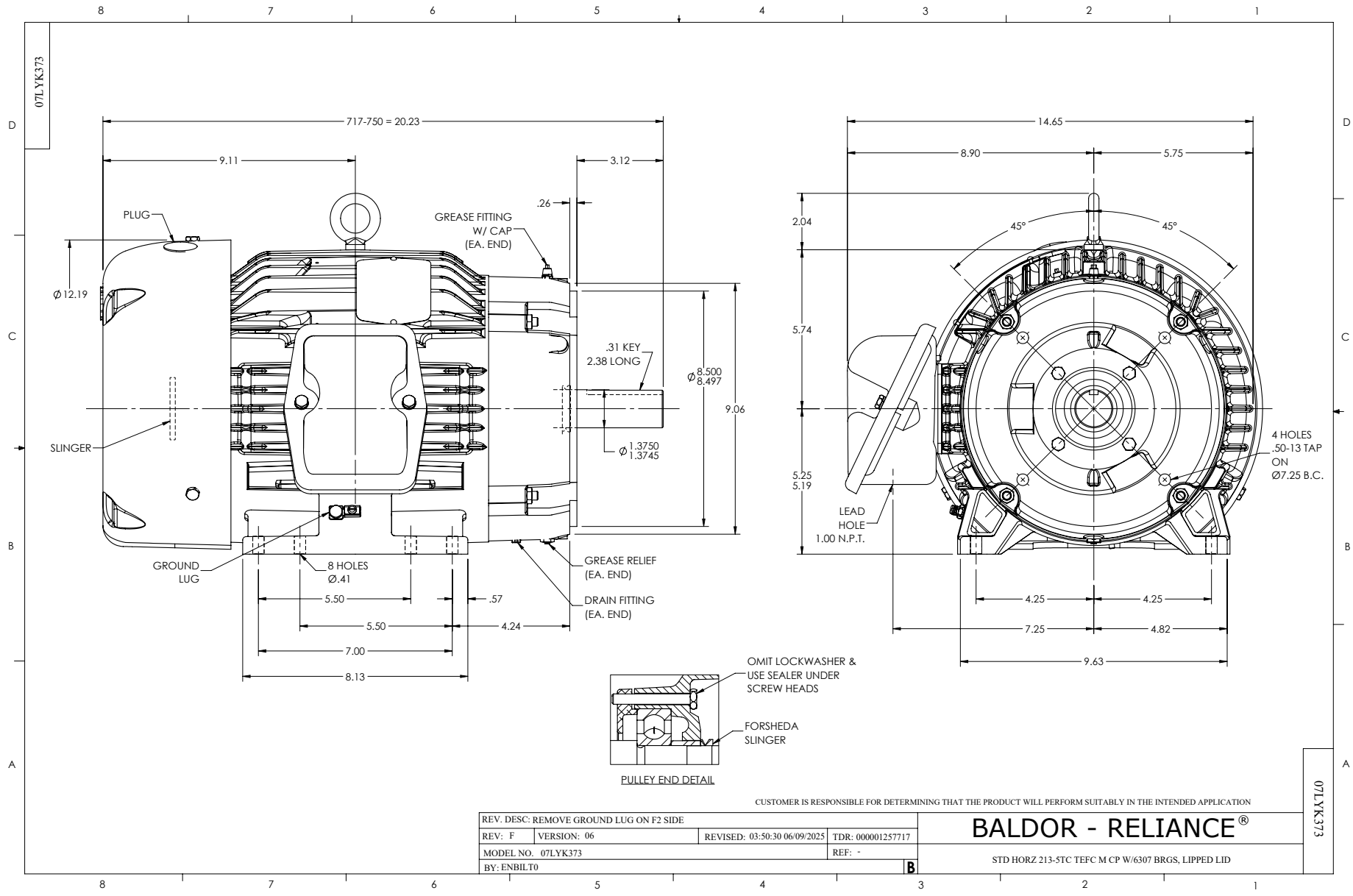
WINDING # 07WGY012

10 HP 3 PH 60 HZ 3500 RPM 460 V 0742M

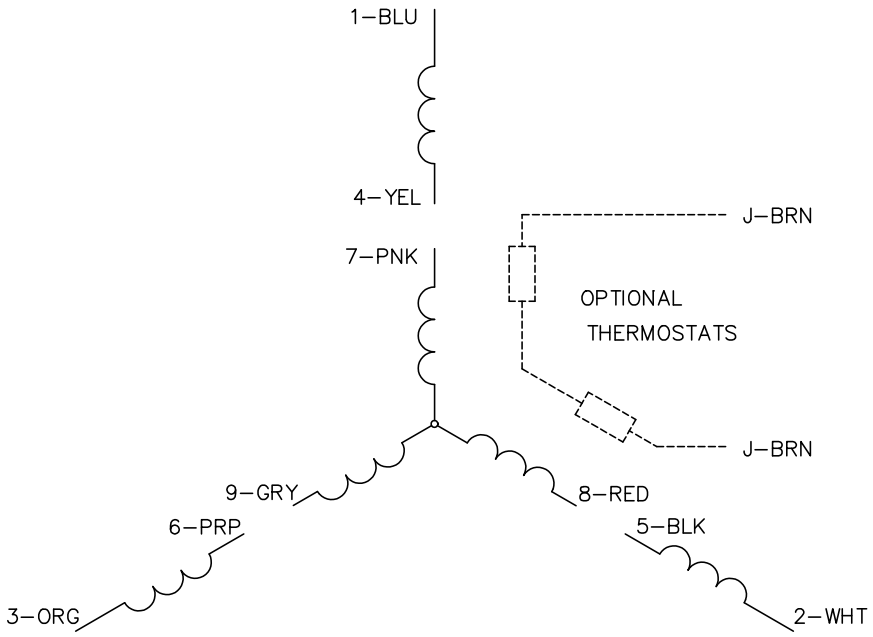
Typical performance - not guaranteed values.

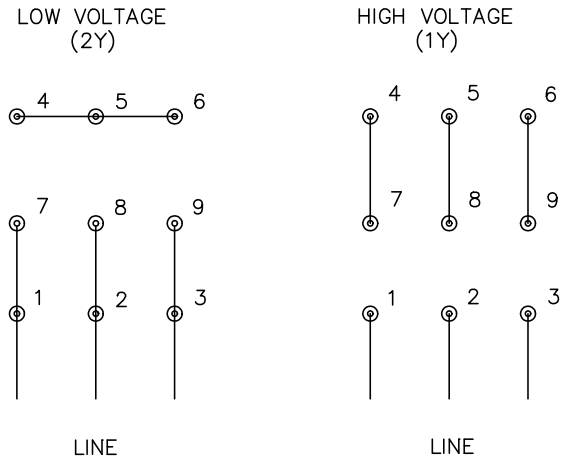
TORQUES(LB-FT): PO=70.8 PU=24.2 LR=32.6 LRA=88.5




07LYK373
717-750 = 20.23
9.11
3.12
.26
PLUG
GREASE FITTING W/ CAP (EA. END)
Ø12.19
.31 KEY 2.38 LONG
Ø 8.500 8.497
9.06
Ø 1.3750 1.3745
SLINGER
GROUND LUG
8 HOLES Ø.41
GREASE RELIEF (EA. END)
DRAIN FITTING (EA. END)
5.50
.57
5.50
4.24
7.00
8.13
14.65
8.90
5.75
2.04
45°
45°
5.74
5.25
5.19
LEAD HOLE 1.00 N.P.T.
4 HOLES .50-13 TAP ON Ø7.25 B.C.
4.25
4.25
7.25
4.82
9.63
OMIT LOCKWASHER & USE SEALER UNDER SCREW HEADS
FORSHEDA SLINGER
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE GROUND LUG ON F2 SIDE
REV: F
VERSION: 06
REVISED: 03:50:30 06/09/2025
TDR: 000001257717
MODEL NO. 07LYK373
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC M CP W/6307 BRGS, LIPPED LID
07LYK373

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