ABB BALDOR RELIANCE

Customer information packet

VECP3774T-4

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.3
Current @ Voltage	12.500 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Z
Type	AC
Mech. spec.	07K370
Base	
Status	PRD/A
Elec. spec.	07WGX556
Layout	07LYK370
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	02-15-2011

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	21.36 IN
Power Factor	82
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	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.	VECP3774T-4							
SPEC.	07K370X556G2							
HP	10 TE							
VOLTS	460							
AMP	12.5							
RPM	1760							
FRAME	215TC	**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**	82					
G.MIN.EFF	91.0	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	07K370X556G2				
D.E. BRG.	35BC03XP30X				
O.D.E. BRG.	35BC03XP30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**	1.7		
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.**			

AC Induction Motor Performance Data
Record # 47025
Typical performance - not guaranteed values

Winding: 07WGX556-R070	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.7 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			12.5	**Breakdown Torque**	104 LB-FT
R.P.M.			1760	**Pull-up Torque**	52 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	70.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	96.9 A
Service Factor (S.F.)			1.15	**No-load Current**	5.06 A
NEMA Nom. Eff.	92.4	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.978 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
S.F. Amps				**Temp. Rise @ S.F. Load**	68°C
				Rotor inertia	1.18 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	69	79	83	85	86	84
Efficiency	88.6	92.2	92.7	92.3	91.5	90.3	91.8
Speed	1793	1785	1777	1769	1760	1750	1764
Line amperes	5.73	7.38	9.59	12.2	14.9	18	13.8

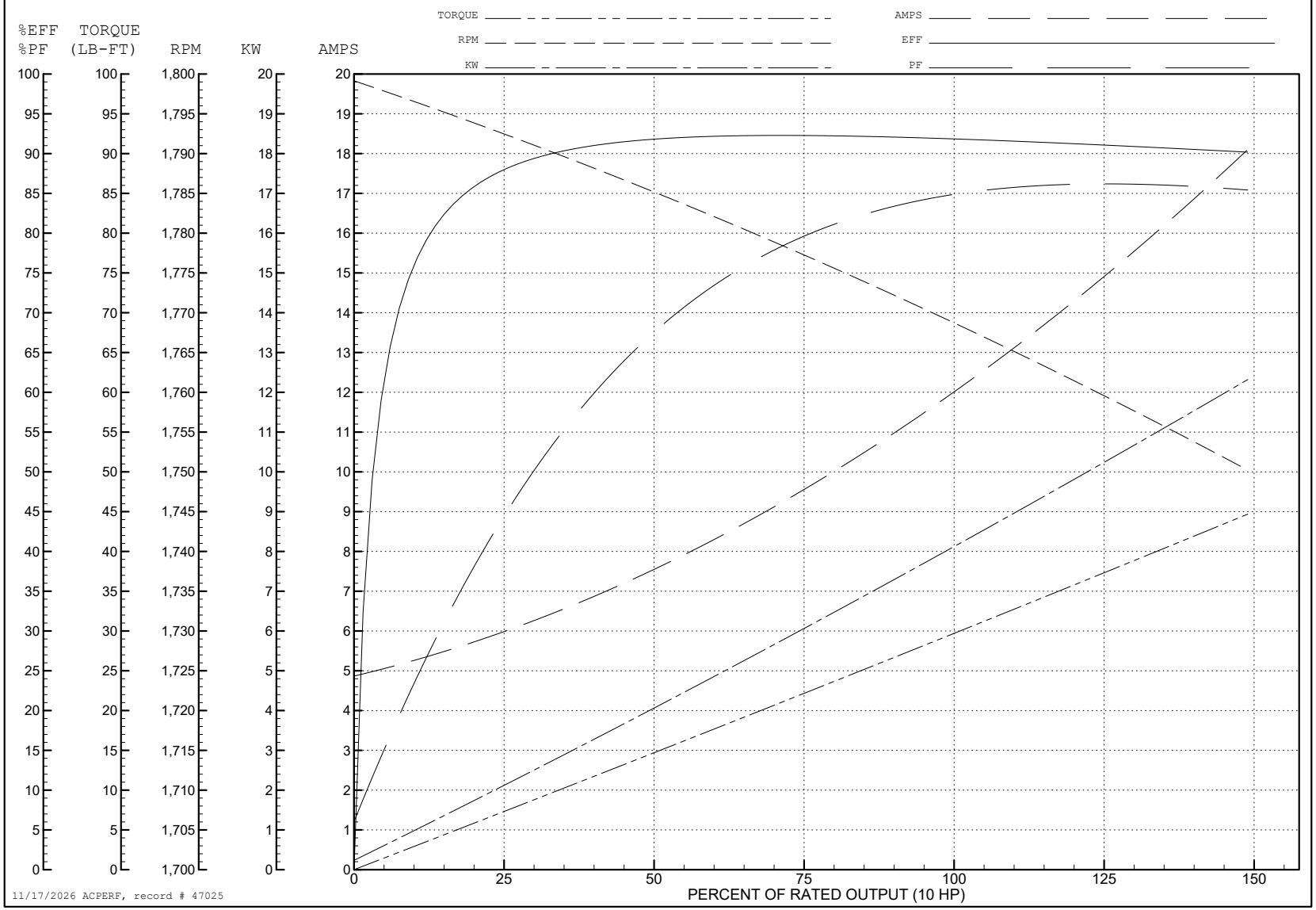
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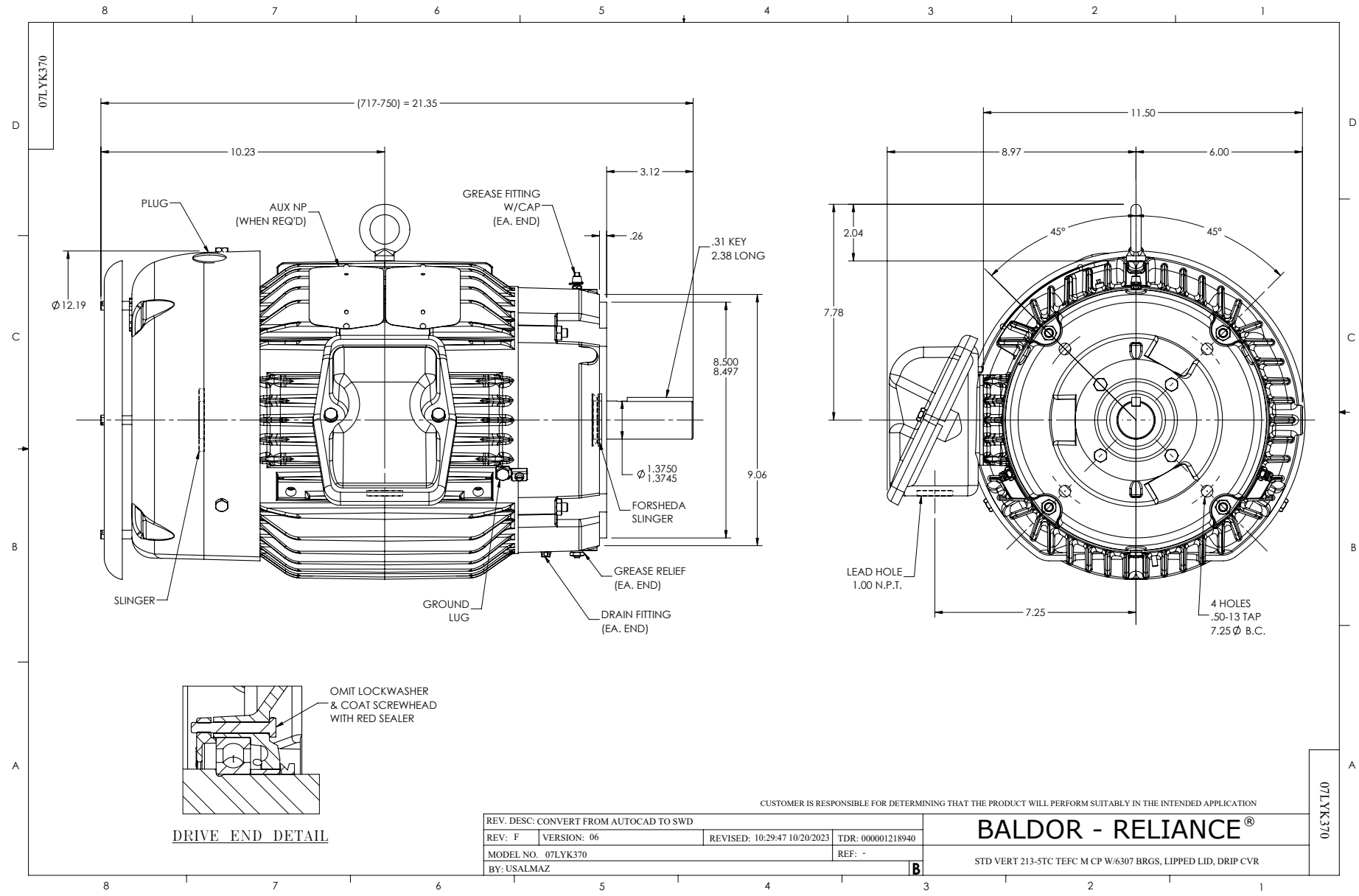
WINDING # 07WGX556

10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

Typical performance - not guaranteed values.

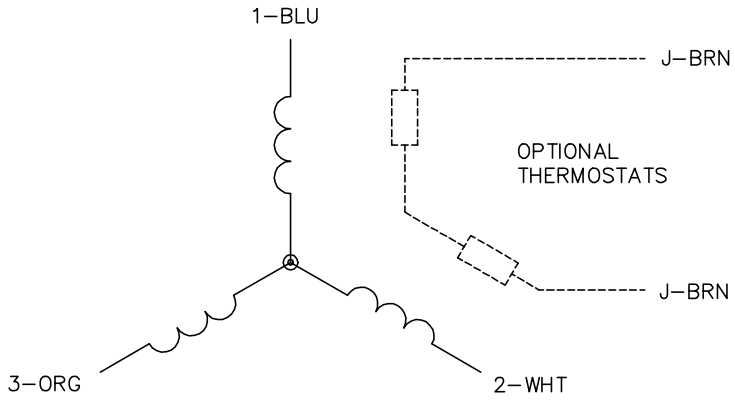
TORQUES(LB-FT): PO=104 PU=52 LR=70.5 LRA=96.9

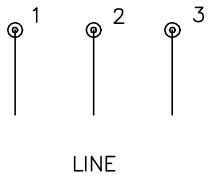



07LYK370
(717-750) = 21.35
10.23
3.12
PLUG
AUX NP
(WHEN REQ'D)
GREASE FITTING
W/CAP
(EA. END)
.26
.31 KEY
2.38 LONG
Ø12.19
8.500
8.497
9.06
Ø 1.3750
1.3745
FORSHEDA
SLINGER
SLINGER
GROUND
LUG
GREASE RELIEF
(EA. END)
DRAIN FITTING
(EA. END)
11.50
8.97
6.00
2.04
45°
45°
7.78
LEAD HOLE
1.00 N.P.T.
7.25
4 HOLES
.50-13 TAP
7.25Ø B.C.
OMIT LOCKWASHER
& COAT SCREWHEAD
WITH RED SEALER
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: F
VERSION: 06
REVISED: 10:29:47 10/20/2023
TDR: 000001218940
MODEL NO. 07LYK370
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 213-5TC TEFC M CP W/6307 BRGS, LIPPED LID, DRIP CVR
07LYK370

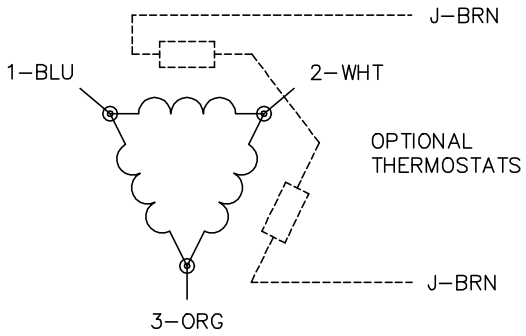
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
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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