

ABB BALDOR RELIANCE III

Customer information packet

VECP3774T-4

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	215TC
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	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. @ 25°C		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

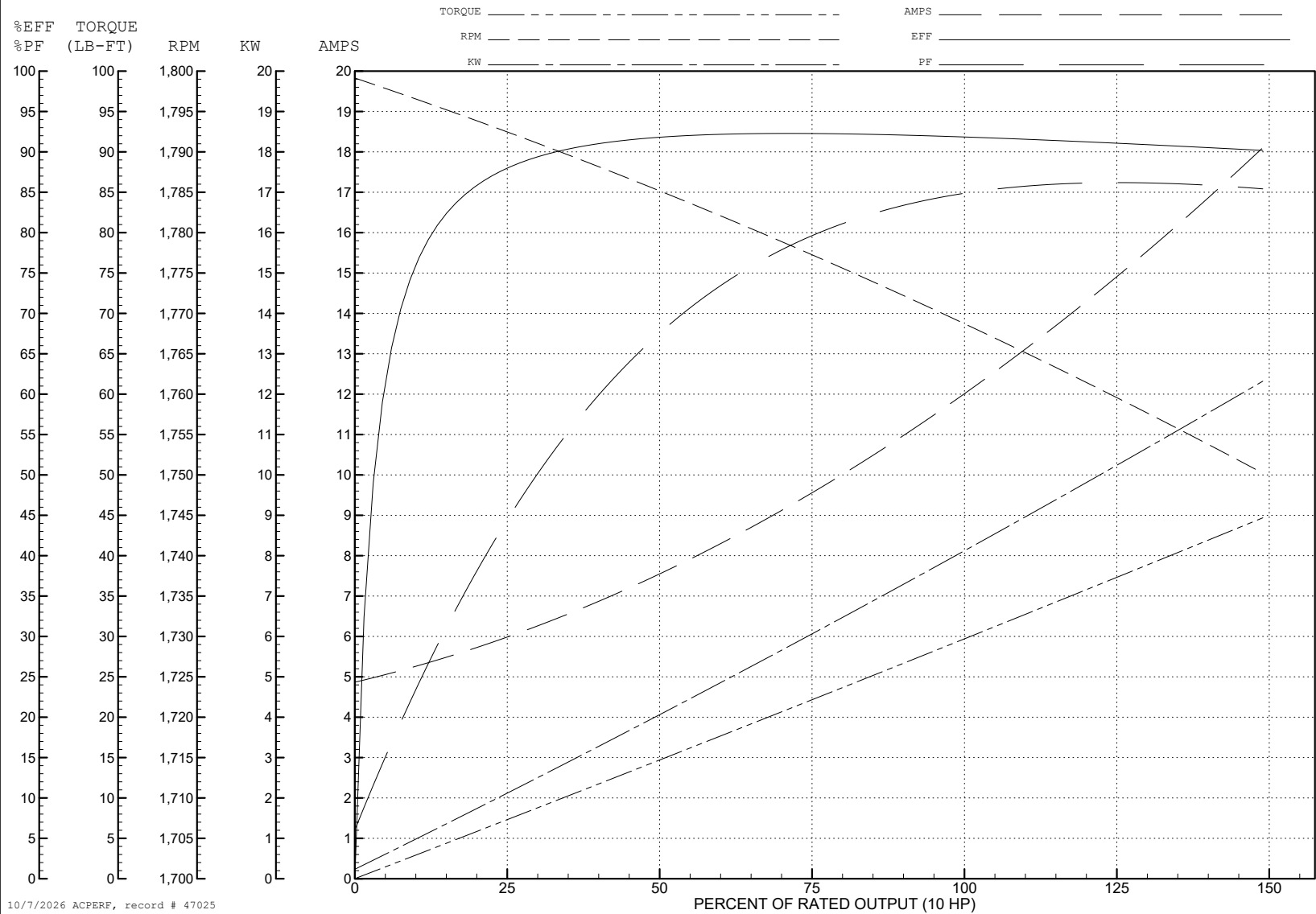
ABB Motors and Mechanical Inc.

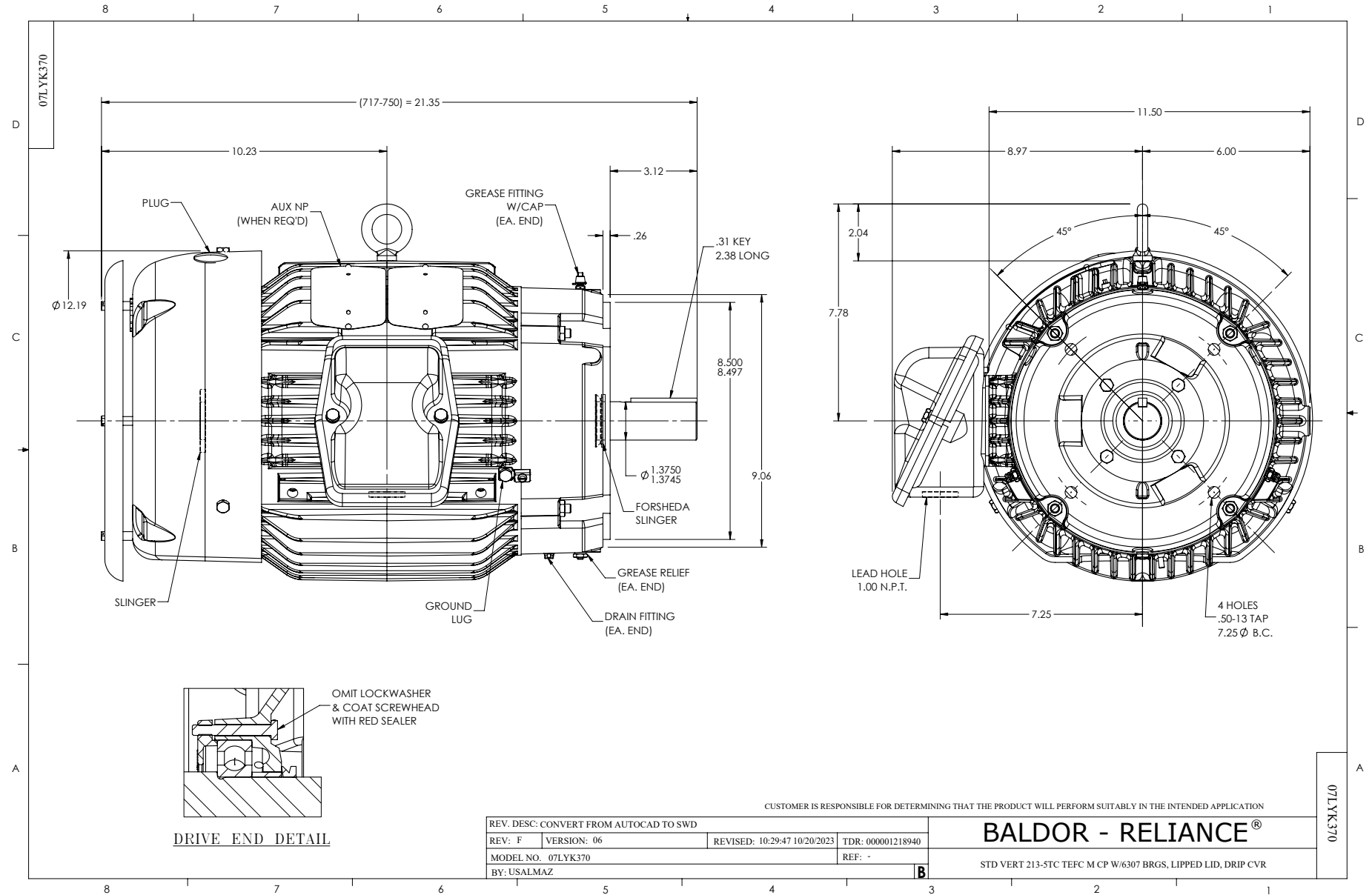
WINDING # 07WGX556

Typical performance - not guaranteed values.

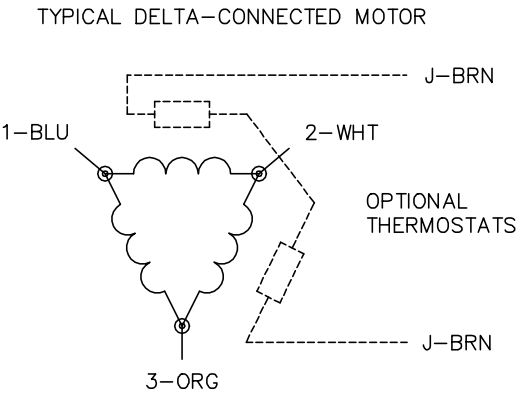
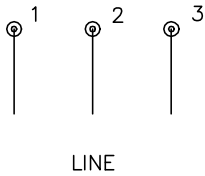
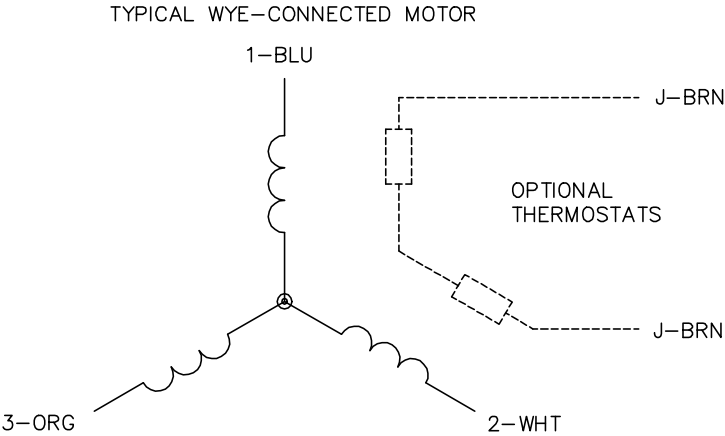
10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

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





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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