

ABB BALDOR RELIANCE III

Customer information packet

EM3774T-8G

10HP, 1760RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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
Current @ Voltage	28.000 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	H

Part Detail

Revision	N
Type	AC
Mech. spec.	07L783
Base	
Status	PRD/A
Elec. spec.	07WGY762
Layout	07LYL783
Eff. date	05-02-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	09-11-2013

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.45 IN
Power Factor	83
Product Family	General Purpose
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	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP3441L											
CAT.NO.	EM3774T-8G										
SPEC.	07L783Y762G1										
HP	10										
VOLTS	200										
AMP	28										
RPM	1760										
FRAME	215T		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	B	CL	H				
NEMA-NOM-EFF	91.7	PF	83								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6206							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

AC Induction Motor Performance Data

Record # 50378

Typical performance - not guaranteed values

Winding: 07WGY762-R003				Type: 0748M		Enclosure: TEFC	
Nameplate Data				200 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		10		Full Load Torque		29.8 LB-FT	
Volts		200		Start Configuration		direct on line	
Full Load Amps		28		Breakdown Torque		80.4 LB-FT	
R.P.M.		1760		Pull-up Torque		39.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		52.2 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		186 A
Service Factor (S.F.)		1.15		No-load Current		10.2 A	
NEMA Nom. Eff.		91.7	Power Factor	83	Line-line Res. @ 25°C		0.207 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		65°C	
S.F. Amps				Temp. Rise @ S.F. Load		81°C	
				Locked-rotor Power Factor		35.2	
				Rotor inertia		1.18 LB-FT2	

Load Characteristics 200 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	80	83	85	85	84
Efficiency	90.4	92.6	93.1	92.2	90.9	89	91.4
Speed	1791	1782	1774	1763	1751	1737	1756
Line amperes	12	16.3	21.7	28	35.1	43.1	32.3

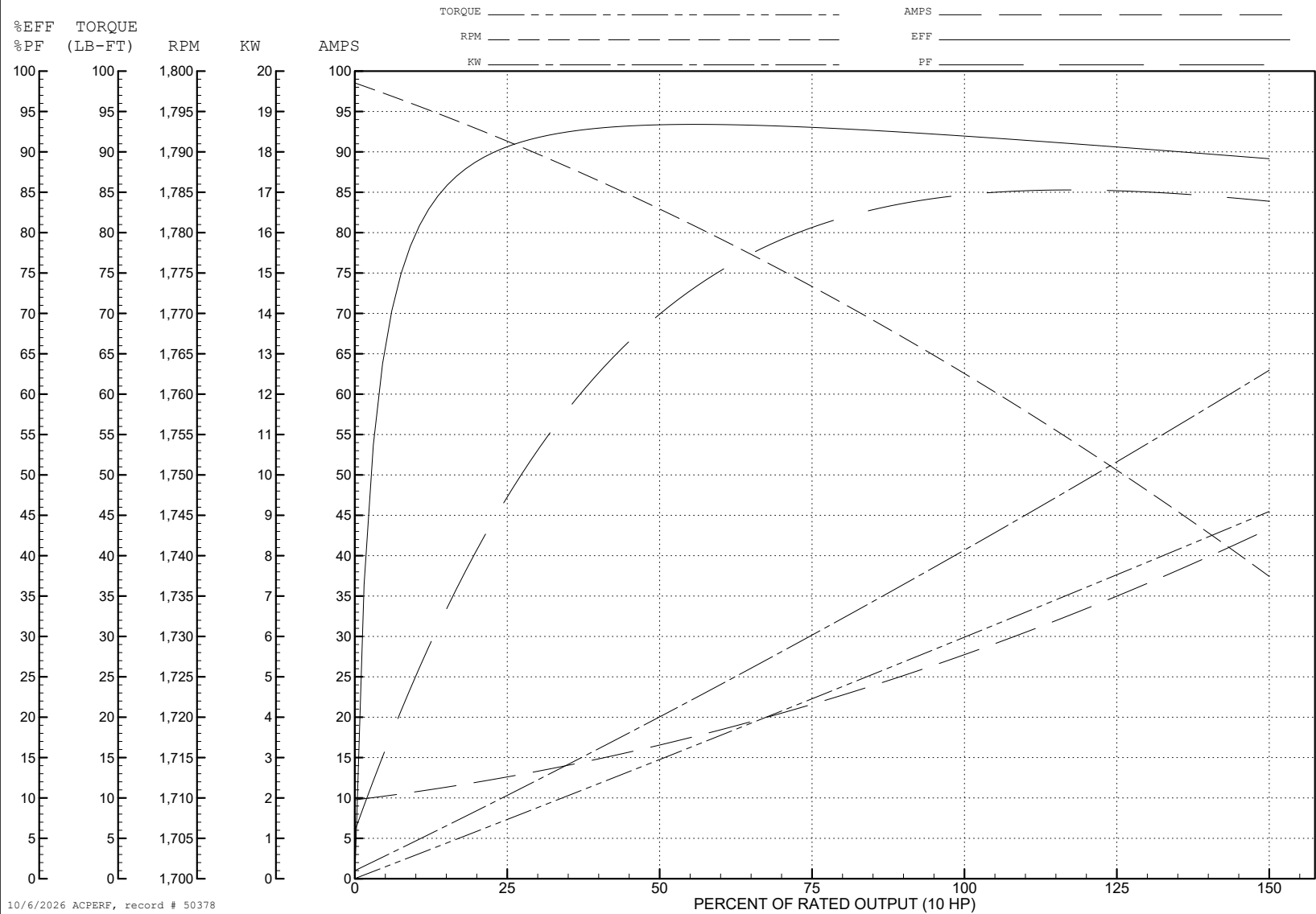
ABB Motors and Mechanical Inc.

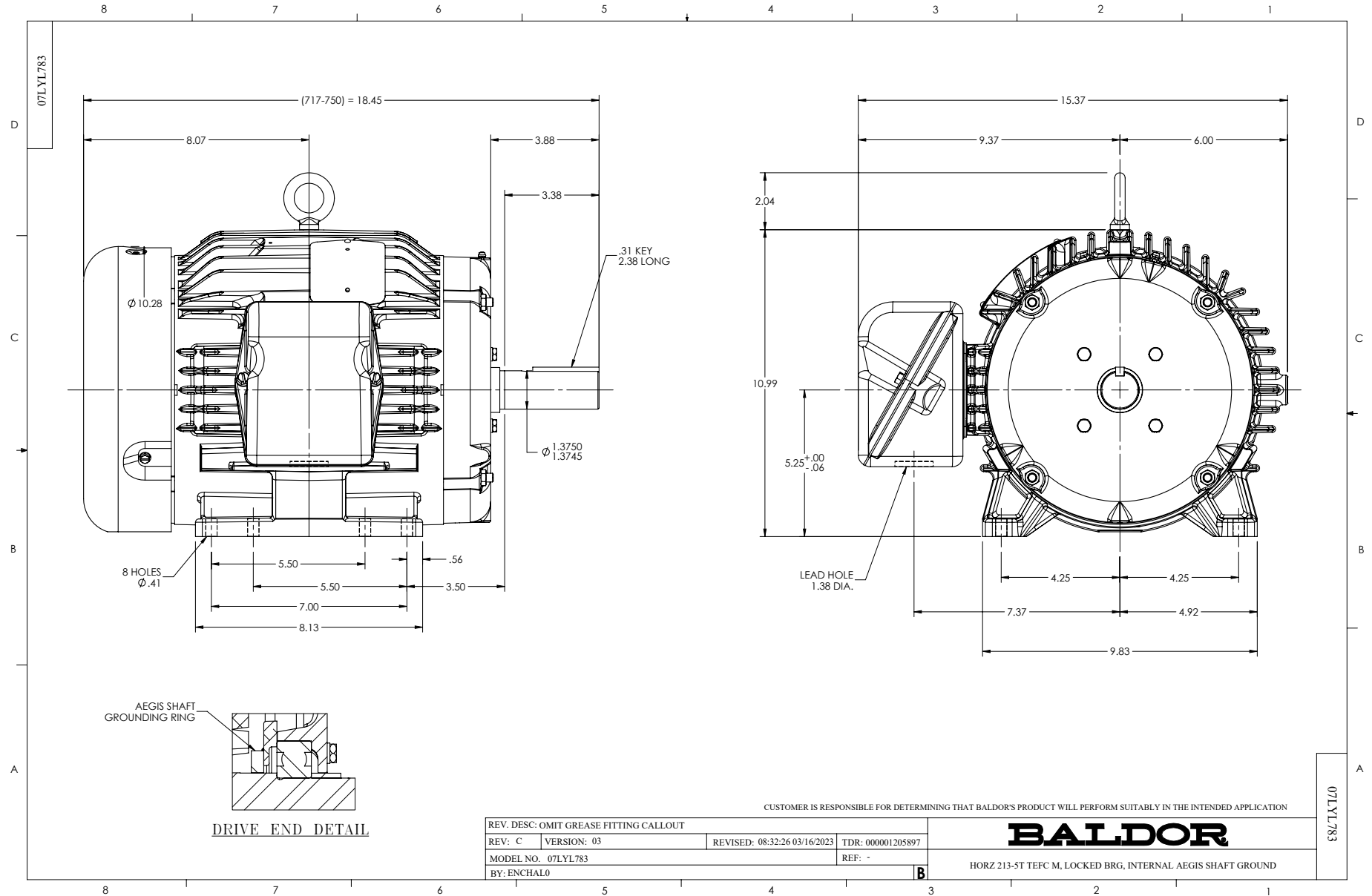
WINDING # 07WGY762

Typical performance - not guaranteed values.

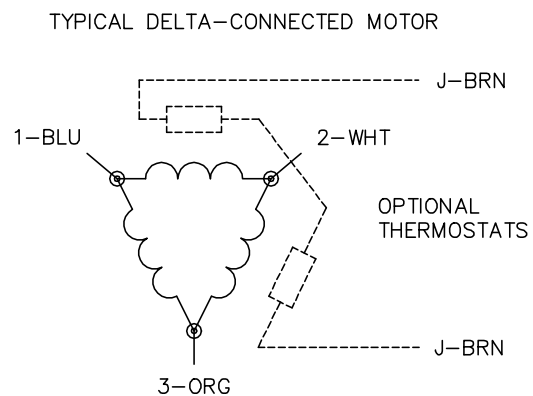
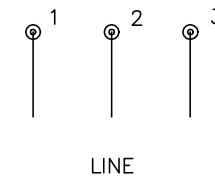
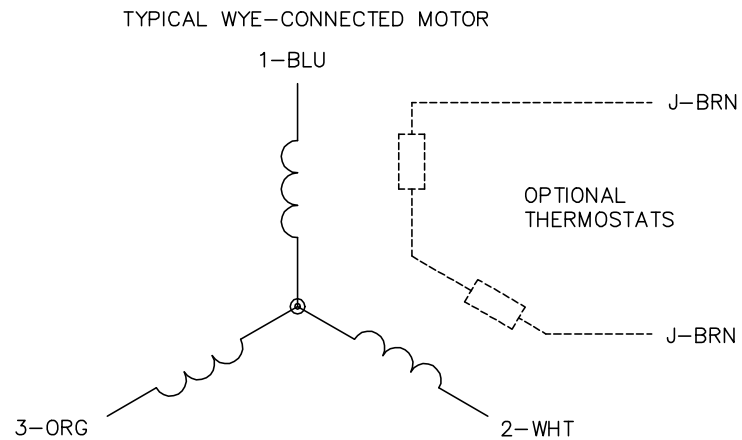
10 HP 3 PH 60 HZ 1760 RPM 200 V 0748M

TORQUES (LB-FT): PO=80.4 PU=39.9 LR=52.2 LRA=186





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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