ABB BALDOR RELIANCE

Customer information packet

EM3774T-G

10HP, 1760RPM, 3PH, 60HZ, 215T, TEFC, F1
Class - None
Division - Not Applicable

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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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	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
Current @ Voltage	24.400 A @ 230.0 V
	12.200 A @ 460.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	12.2 a

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY179
Layout	07LYL783
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-12-2019

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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 Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA										
CAT.NO.	EM3774T-G									
SPEC	07-0000-0086									
HP	10									
VOLTS	230/460									
AMPS	24.4/12.2									
RPM	1760									
FRAME	215T	**HZ**	60			**PH**	3			
SF	1.15	**CODE**	H	**DES**	B	**CLASS**	H			
NEMA NOM. EFF	91.7	**PF**	83							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6307	**ODE**	6206							
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 7.5HP 190/380V 22.4/11.2A									SF1.0

AC Induction Motor Performance Data
Record # 58730
Typical performance - not guaranteed values

Winding: 07WGY179-R008	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			24.4/12.2	**Breakdown Torque**	80.9 LB-FT
R.P.M.			1760	**Pull-up Torque**	40.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	52.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	81 A
Service Factor (S.F.)			1.15	**No-load Current**	4.44 A
NEMA Nom. Eff.	91.7	**Power Factor**	83	**Line-line Res. @ 25ºC**	1.08 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	80°C
				Locked-rotor Power Factor	35.1
				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	50	71	80	83	85	85	84
Efficiency	90.4	92.5	92.9	92.4	91	89.1	91.6
Speed	1791	1782	1774	1763	1751	1737	1756
Line amperes	5.24	7.1	9.42	12.2	15.2	18.7	14

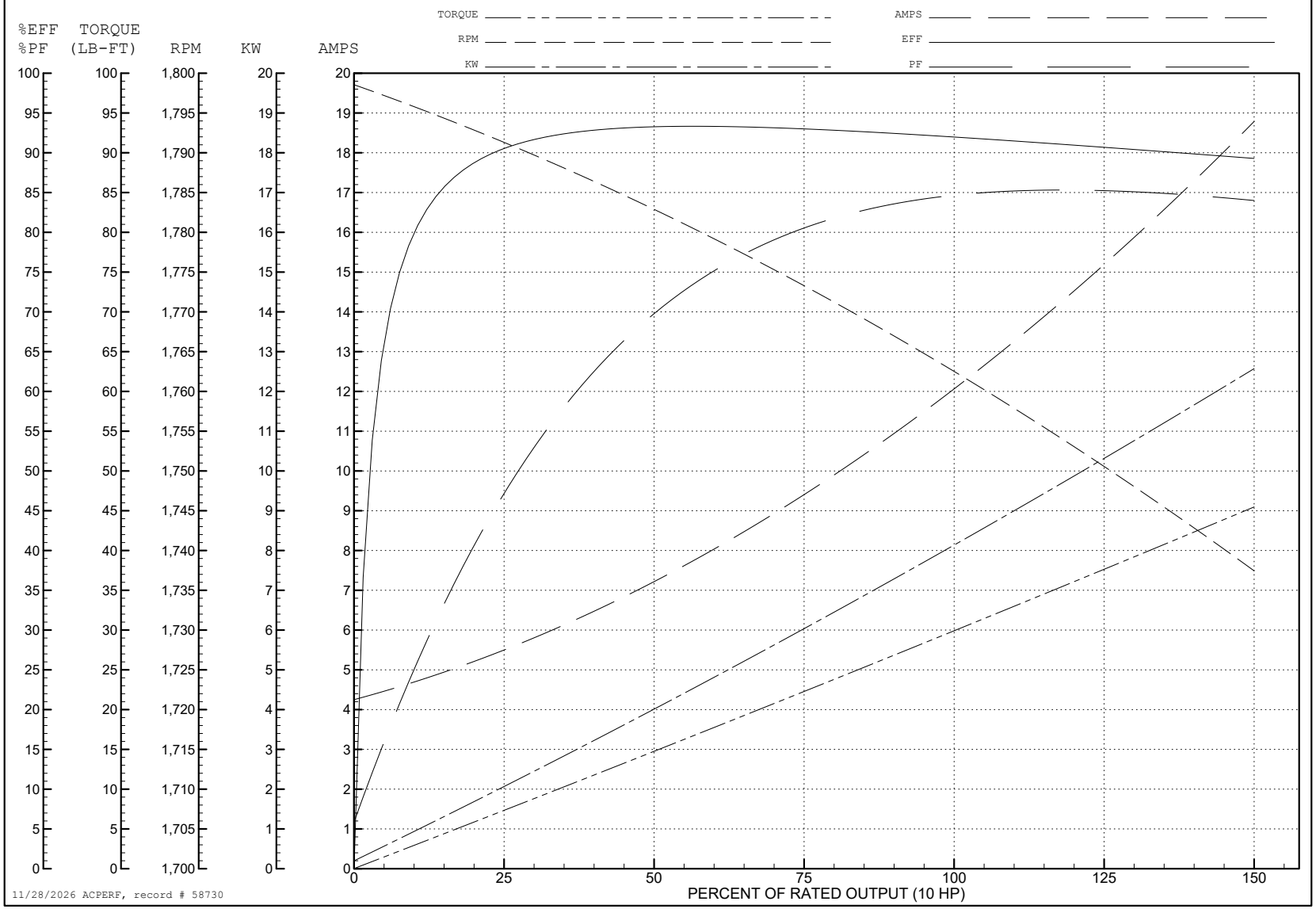
ABB Motors and Mechanical Inc.

WINDING # 07WGY179

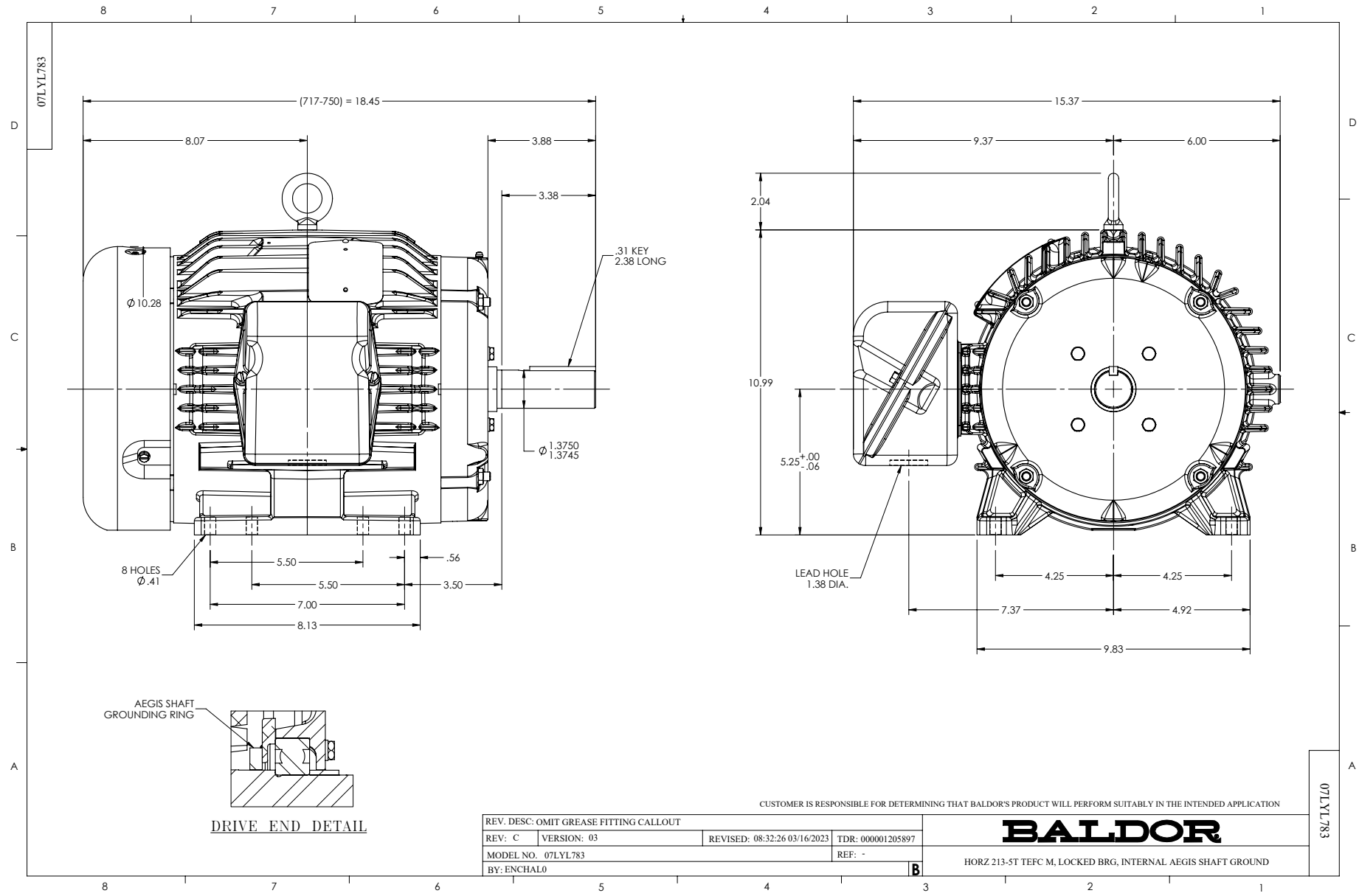
10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

Typical performance - not guaranteed values.

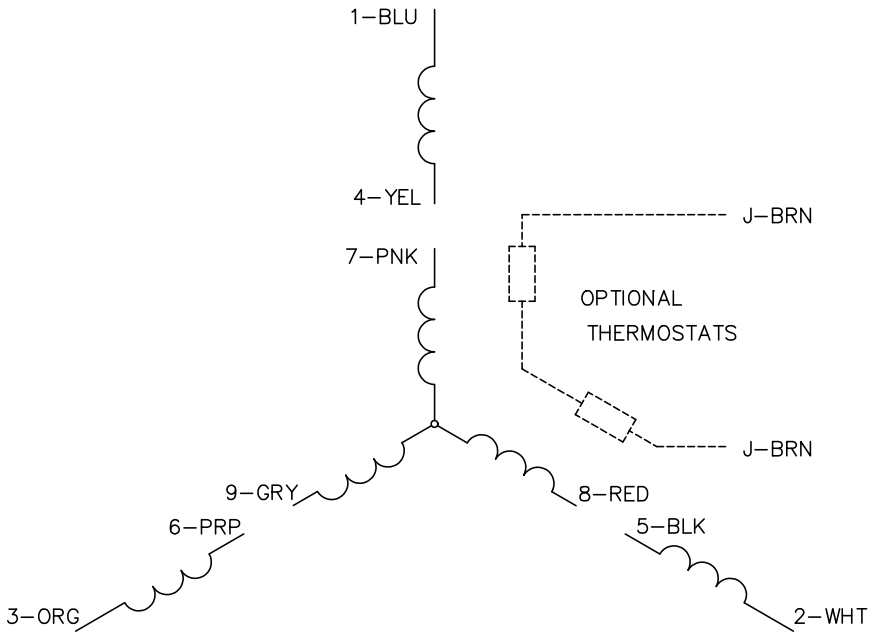
TORQUES(LB-FT): PO=80.9 PU=40.2 LR=52.6 LRA=81

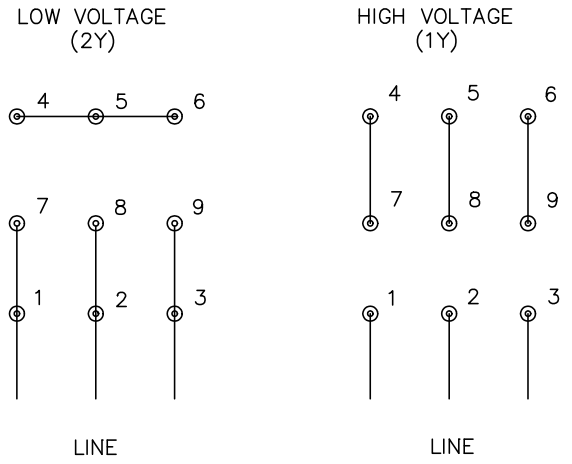


11/28/2026 ACPERF, record # 58730


07LYL783
(717-750) = 18.45
8.07
3.88
3.38
.31 KEY
2.38 LONG
Ø 10.28
Ø 1.3750
1.3745
8 HOLES
Ø .41
5.50
.56
5.50
3.50
7.00
8.13
15.37
9.37
6.00
2.04
10.99
5.25 +.00 -.06
LEAD HOLE
1.38 DIA.
4.25
4.25
7.37
4.92
9.83
AEGIS SHAFT
GROUNDING RING
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: OMIT GREASE FITTING CALLOUT
REV: C
VERSION: 03
REVISED: 08:32:26 03/16/2023
TDR: 000001205897
MODEL NO. 07LYL783
REF: -
BY: ENCHAL0
B
BALDOR
HORZ 213-5T TEFC M, LOCKED BRG, INTERNAL AEGIS SHAFT GROUND
07LYL783

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