

**BALDOR • RELIANCE**

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# Customer information packet

## EM3774T-BG

10HP, 1760RPM, 3PH, 60HZ, 215T, 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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY179
Layout	07LYN555
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-12-2019

<b>Insulation Class</b>	H
<b>Inverter Code</b>	Inverter Ready
<b>IP Rating</b>	NONE
<b>KVA Code</b>	H
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0748M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	18.45 IN
<b>Power Factor</b>	83
<b>Product Family</b>	General Purpose
<b>Pulley Face Code</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.375 IN
<b>Shaft Ground Indicator</b>	Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Speed</b>	1760 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1259L</b>									
<b>CAT.NO.</b>	EM3774T-BG								
<b>SPEC.</b>	07-0000-0091								
<b>HP</b>	10								
<b>VOLTS</b>	230/460								
<b>AMP</b>	24.4/12.2								
<b>RPM</b>	1760								
<b>FRAME</b>	215T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	H	<b>DES</b>	B	<b>CL</b>	H		
<b>NEMA-NOM-EFF</b>	91.7	<b>PF</b>	83						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6307	<b>ODE</b>	6307						
<b>ENCL</b>	TEFC	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 58730

Typical performance - not guaranteed values

Winding: 07WGY179-R008		Type: 0748M	Enclosure: TEFC
<b>Nameplate Data</b>		<b>460 V, 60 Hz: High Voltage Connection</b>	
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	Locked-rotor Torque	52.6 LB-FT
NEMA Design Code	B KVA Code	Starting Current	81 A
Service Factor (S.F.)	1.15	No-load Current	4.44 A
NEMA Nom. Eff.	91.7 Power Factor	Line-line Res. @ 25°C	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-FT <sup>2</sup>

**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

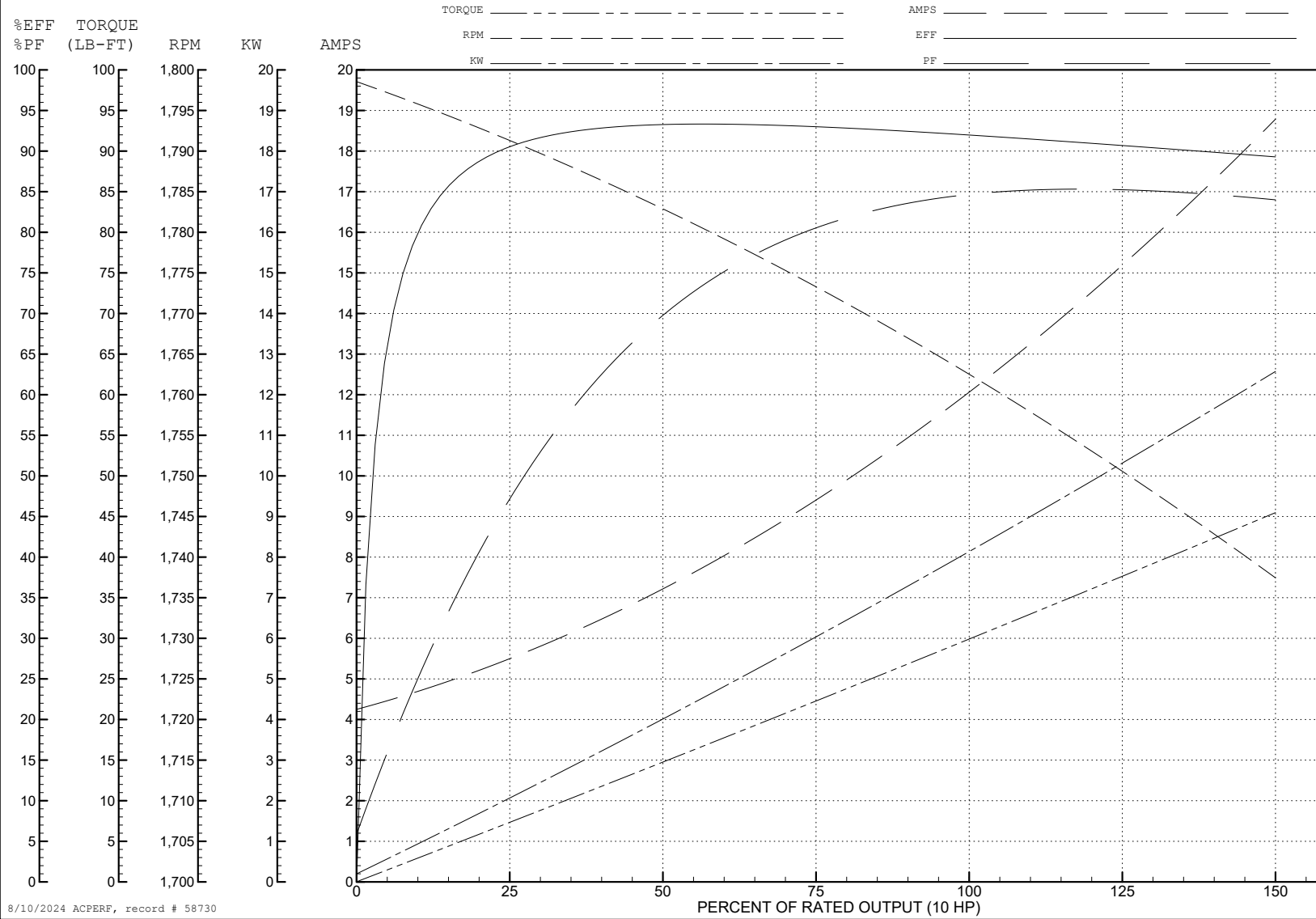
ABB Motors and Mechanical Inc.

WINDING # 07WGY179

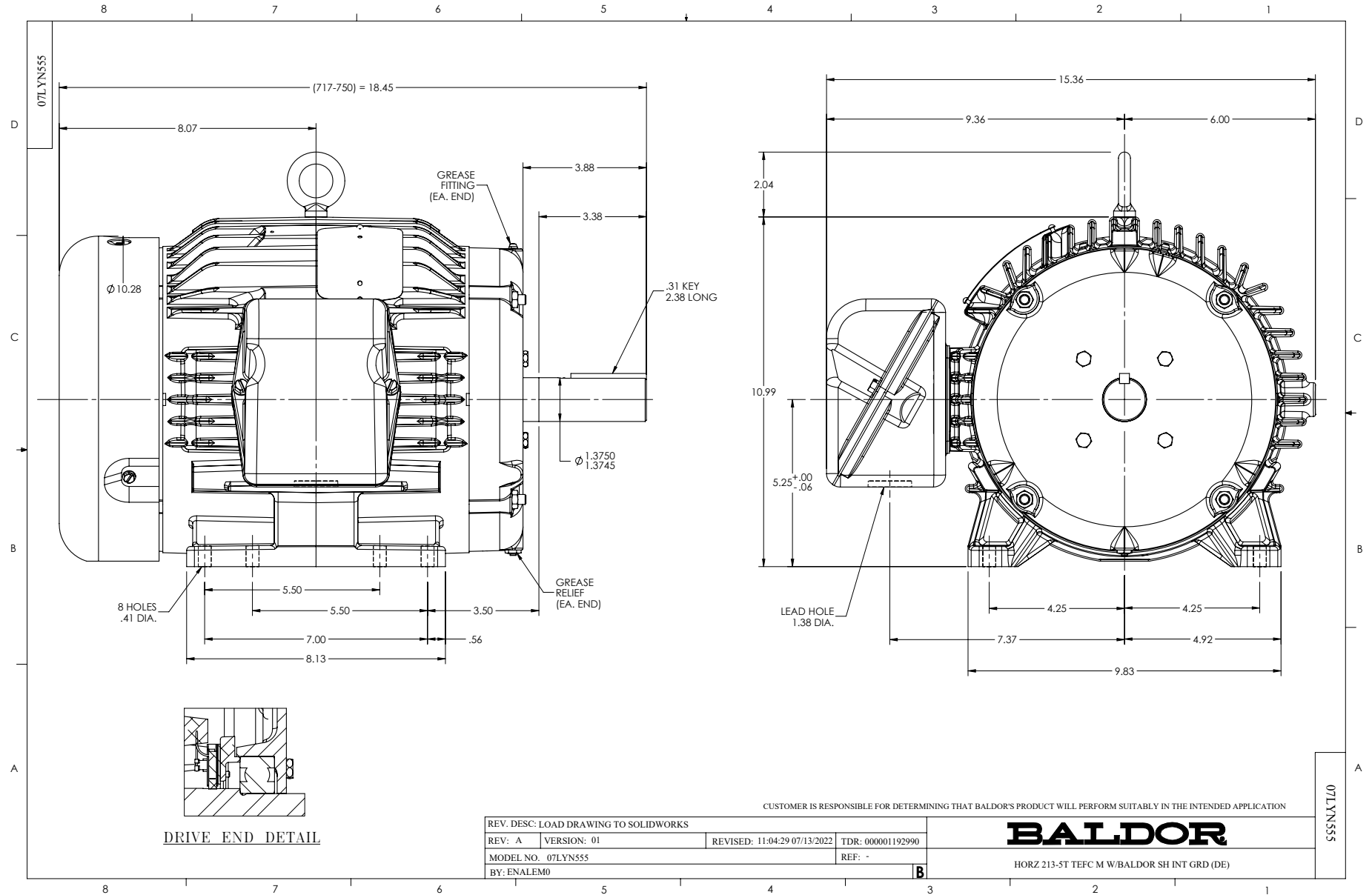
Typical performance - not guaranteed values.

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

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



8/10/2024 ACPERF, record # 58730



CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

**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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS