

**BALDOR • RELIANCE**

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# Customer information packet

## EM3769T-BG

7.5HP, 3510RPM, 3PH, 60HZ, 213T, TEFC, F1

Class - None

Division - Not Applicable

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1/18/2025 8:21:19 PM

## Specifications

Enclosure	TEFC
Frame	213T
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 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	9.000 A @ 460.0 V 18.400 A @ 208.0 V 18.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

## Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY328
Layout	07LYN555
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-12-2019

High Voltage Full Load Amps	9.0 a
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	0726M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.45 IN
Power Factor	86
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	3510 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**

<b>CAT.NO.</b>	EM3769T-BG						
<b>SPEC</b>	07-0000-0098						
<b>HP</b>	7.5						
<b>VOLTS</b>	230/460						
<b>AMPS</b>	18/9						
<b>RPM</b>	3510						
<b>FRAME</b>	213T		<b>HZ</b>	60		<b>PH</b>	3
<b>SF</b>	1.15	<b>CODE</b>	H	<b>DES</b>	B	<b>CLASS</b>	H
<b>NEMA NOM. EFF</b>	89.5	<b>PF</b>	86				
<b>RATING</b>	40C AMB-CONT						
<b>CC</b>	010A						
<b>ENCL</b>	TEFC	<b>SER</b>					
<b>DE</b>	6307	<b>ODE</b>	6307				
<b>VPWM INVERTER READY</b>							
<b>CT6-60H(10:1)VT3-60H(20:1</b>	50HZ 7.5HP 190/380V 21/10.5A						SF1.0

**AC Induction Motor Performance Data**

Record # 64042

Typical performance - not guaranteed values

<b>Winding: 07WGY328-R019</b>		<b>Type: 0726M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	7.5	<b>Full Load Torque</b>	11.2 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	18/9	<b>Breakdown Torque</b>	38.8 LB-FT		
<b>R.P.M.</b>	3510	<b>Pull-up Torque</b>	20.4 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	23.5 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	61.1 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	3.54 A		
<b>NEMA Nom. Eff.</b>	89.5	<b>Line-line Res. @ 25°C</b>	1.19 Ω		
<b>Rating - Duty</b>	40C	<b>Temp. Rise @ Rated Load</b>	44°C		
<b>S.F. Amps</b>	AMB-CONT	<b>Temp. Rise @ S.F. Load</b>	54°C		
		<b>Locked-rotor Power Factor</b>	33.8		
		<b>Rotor inertia</b>	0.237 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	52	74	82	87	90	89	89
<b>Efficiency</b>	83.7	89.3	90.4	90.6	89.5	88.2	89.9
<b>Speed</b>	3581	3559	3537	3512	3486	3456	3496
<b>Line amperes</b>	4.04	5.31	7.04	8.9	10.9	13.3	10.1

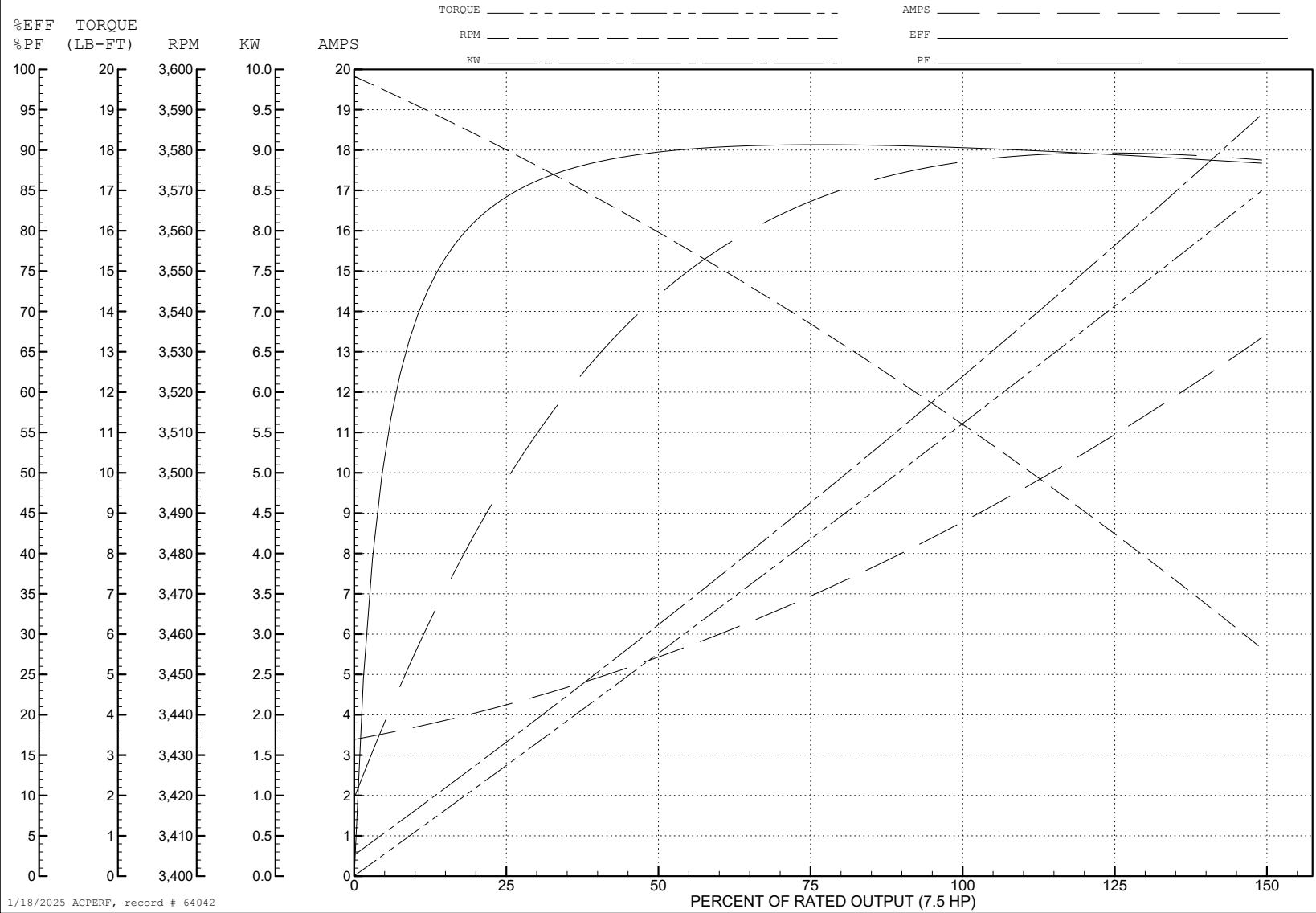
ABB Motors and Mechanical Inc.

WINDING # 07WGY328

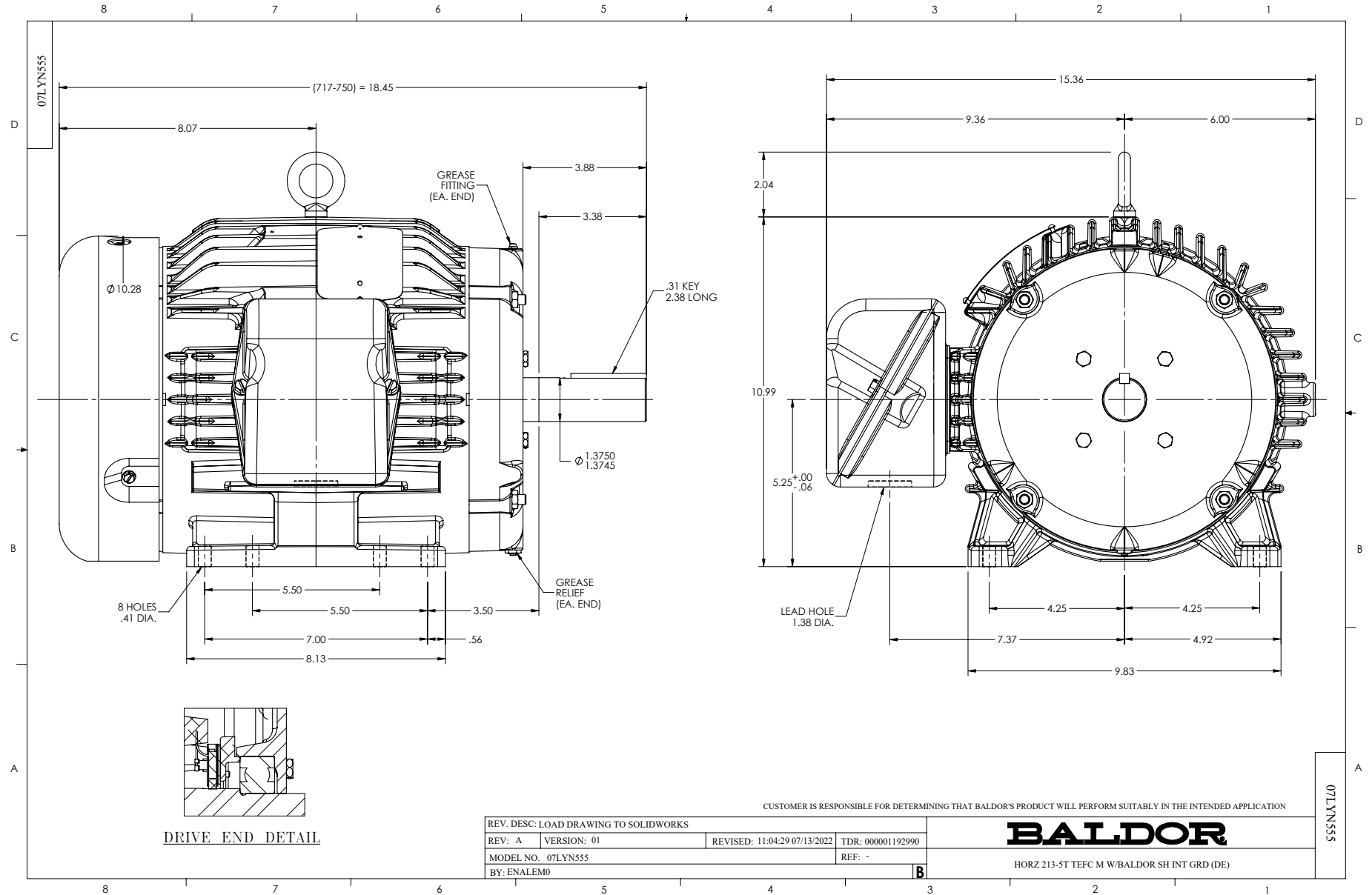
7.5 HP 3 PH 60 HZ 3510 RPM 460 V 0726M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=38.8 PU=20.4 LR=23.5 LRA=61.1



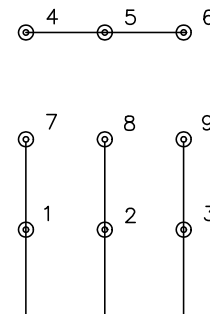
1/18/2025 ACPERF, record # 64042



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