ABB BALDOR RELIANCE

Customer information packet

EM3768T

5HP, 1160RPM, 3PH, 60HZ, 215T, 0746M, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/11/2026 4:17:56 PM

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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	15.300 A @ 208.0 V
	7.400 A @ 460.0 V
	14.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	T
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGY763
Layout	07LYH002
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	05-07-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0746M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.45 IN
Power Factor	71
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 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

NP3441LUA										
CAT.NO.	EM3768T									
SPEC	07H002Y763									
HP	5									
VOLTS	230/460									
AMPS	14.8/7.4									
RPM	1160									
FRAME	215T	**HZ**	60		**PH**	3				
SF	1.15	**CODE**	K	**DES**	A	**CLASS**	F			
NEMA NOM. EFF	89.5	**PF**	71							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6307	**ODE**	6206							
VPWM INVERTER READY	SFA 16.6/8.3									
CT6-60H(10:1)VT3-60H(20:1										
	50Hz 5HP 190/380V 17.2/8.6A									SF1.0

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 50558
Typical performance - not guaranteed values

Winding: 07WGY763-R005	**Type:** 0746M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	22.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14.8/7.4	**Breakdown Torque**	81.3 LB-FT
R.P.M.			1160	**Pull-up Torque**	49.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	59.9 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	54.8 A
Service Factor (S.F.)			1.15	**No-load Current**	4.03 A
NEMA Nom. Eff.	89.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	1.64 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	22.2
				Rotor inertia	1.14 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	51	63	70	74	76	72
Efficiency	84.9	89.7	90.6	90.4	89.2	87.7	89.7
Speed	1190	1181	1174	1164	1153	1141	1157
Line amperes	4.32	5.06	6.12	7.48	8.92	10.5	8.34

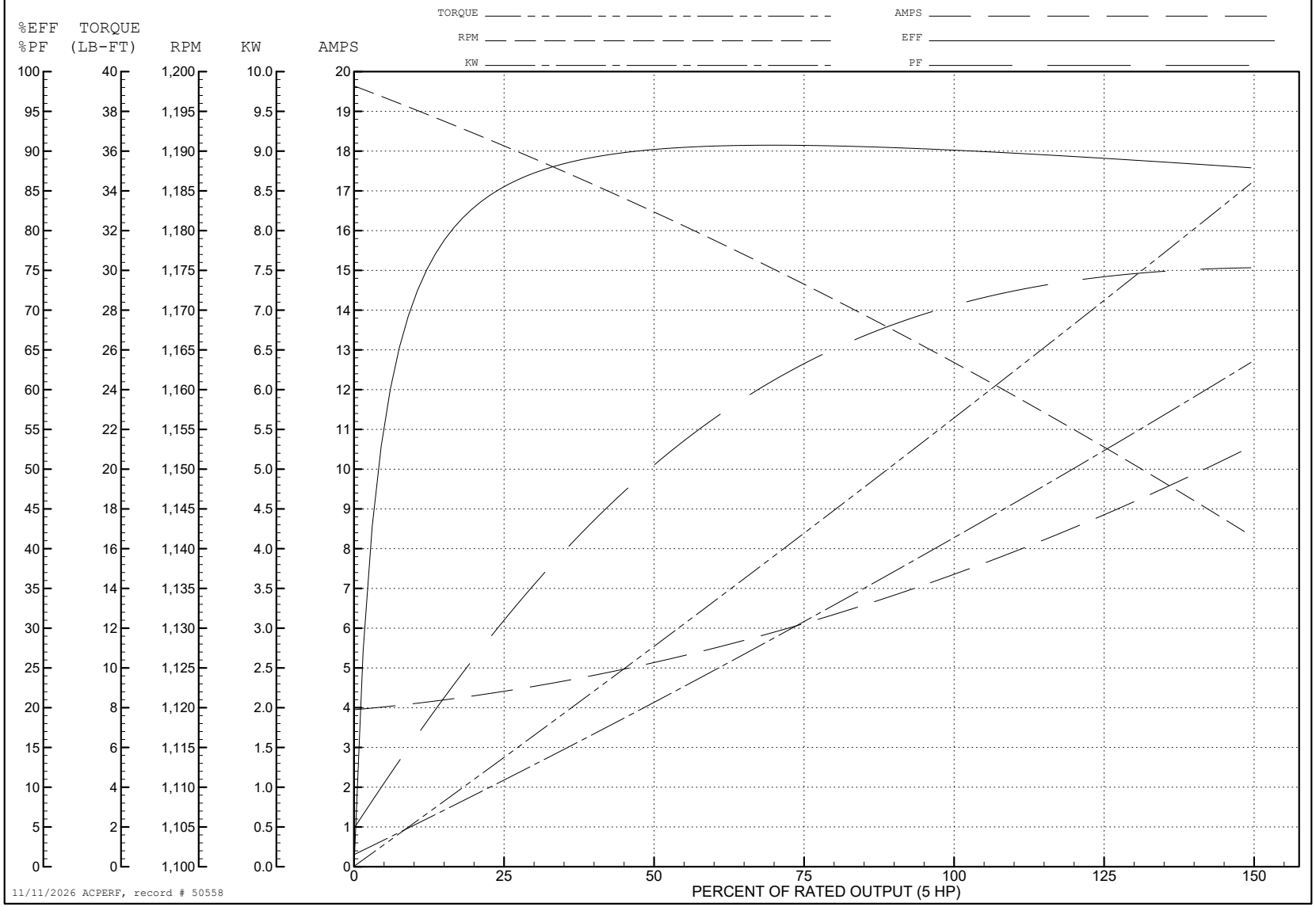
ABB Motors and Mechanical Inc.

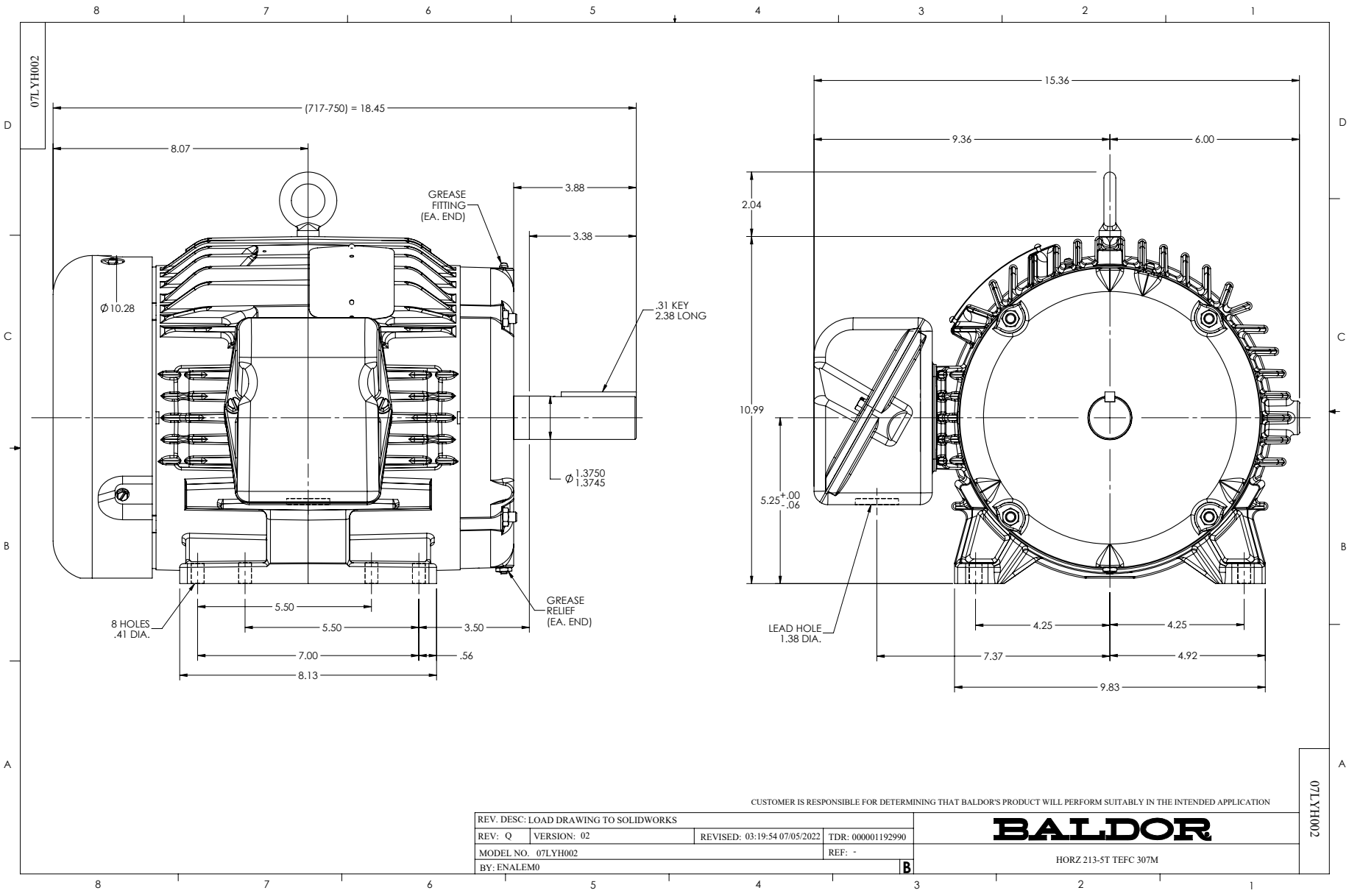
WINDING # 07WGY763

5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

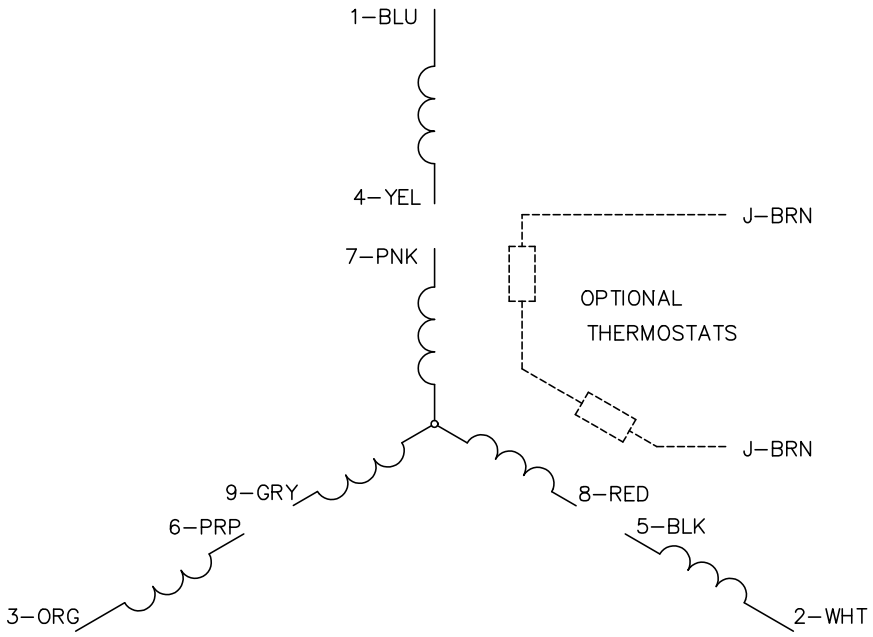
Typical performance - not guaranteed values.

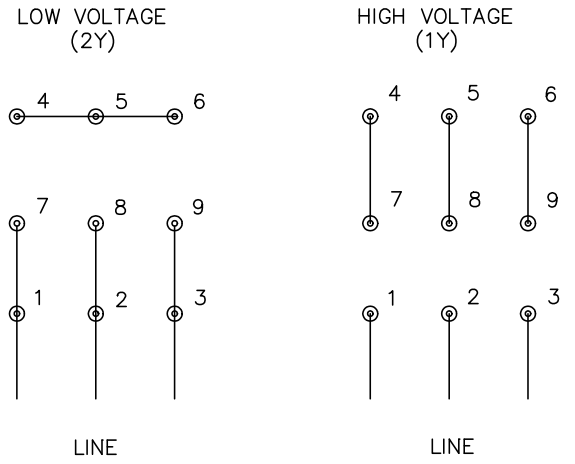
TORQUES(LB-FT): PO=81.3 PU=49.9 LR=59.9 LRA=54.8




07LYH002
(717-750) = 18.45
8.07
3.88
3.38
GREASE FITTING (EA. END)
Ø 10.28
.31 KEY 2.38 LONG
Ø 1.3750 1.3745
8 HOLES .41 DIA.
5.50
5.50
3.50
7.00
.56
8.13
GREASE RELIEF (EA. END)
15.36
9.36
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
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: Q
VERSION: 02
REVISED: 03:19:54 07/05/2022
TDR: 000001192990
MODEL NO. 07LYH002
REF: -
BY: ENALEM0
B
BALDOR
HORZ 213-5T TEFC 307M
07LYH002

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