BALDOR • RELIANCE

Customer information packet

EM3774T-5

10HP, 1760RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1
Class - None
Division - Not Applicable

12/2/2024 8:54:17 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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
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	9.800 A @ 575.0 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	9.8 a
Insulation Class	F
Inverter Code	Inverter Ready

Part detail

Revision	AH
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGY729
Layout	07LYH002
Eff. date	04-29-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	05-10-2010

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 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	No 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

NP1259L											
CAT.NO.	EM3774T-5										
SPEC.	07H002Y729G1										
HP	10										
VOLTS	575										
AMP	9.8										
RPM	1760										
FRAME	215T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F				
NEMA-NOM-EFF	91.7	**PF**	83								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		**ODE**	6206							
ENCL	TEFC	**SN**									
	SFA 11.2										

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 89235
Typical performance - not guaranteed values

Winding: 07WGY729-R002	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.77 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			9.8	**Breakdown Torque**	82.63 LB-FT
R.P.M.			1760	**Pull-up Torque**	41.23 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.91 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	66.29 A
Service Factor (S.F.)			1.15	**No-load Current**	3.65 A
NEMA Nom. Eff.	91.7	**Power Factor**	83	**Line-line Res. @ 25ºC**	1.68 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	35.3847
				Rotor inertia	1.18 lb-ft²

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	70	79	83	85	84	84
Efficiency	90.1	91.9	92.6	92.1	90.9	89.1	91.4
Speed	1791	1782	1774	1764	1752	1738	1757
Line amperes	4.28	5.74	7.6	9.79	12.21	15.01	11.2

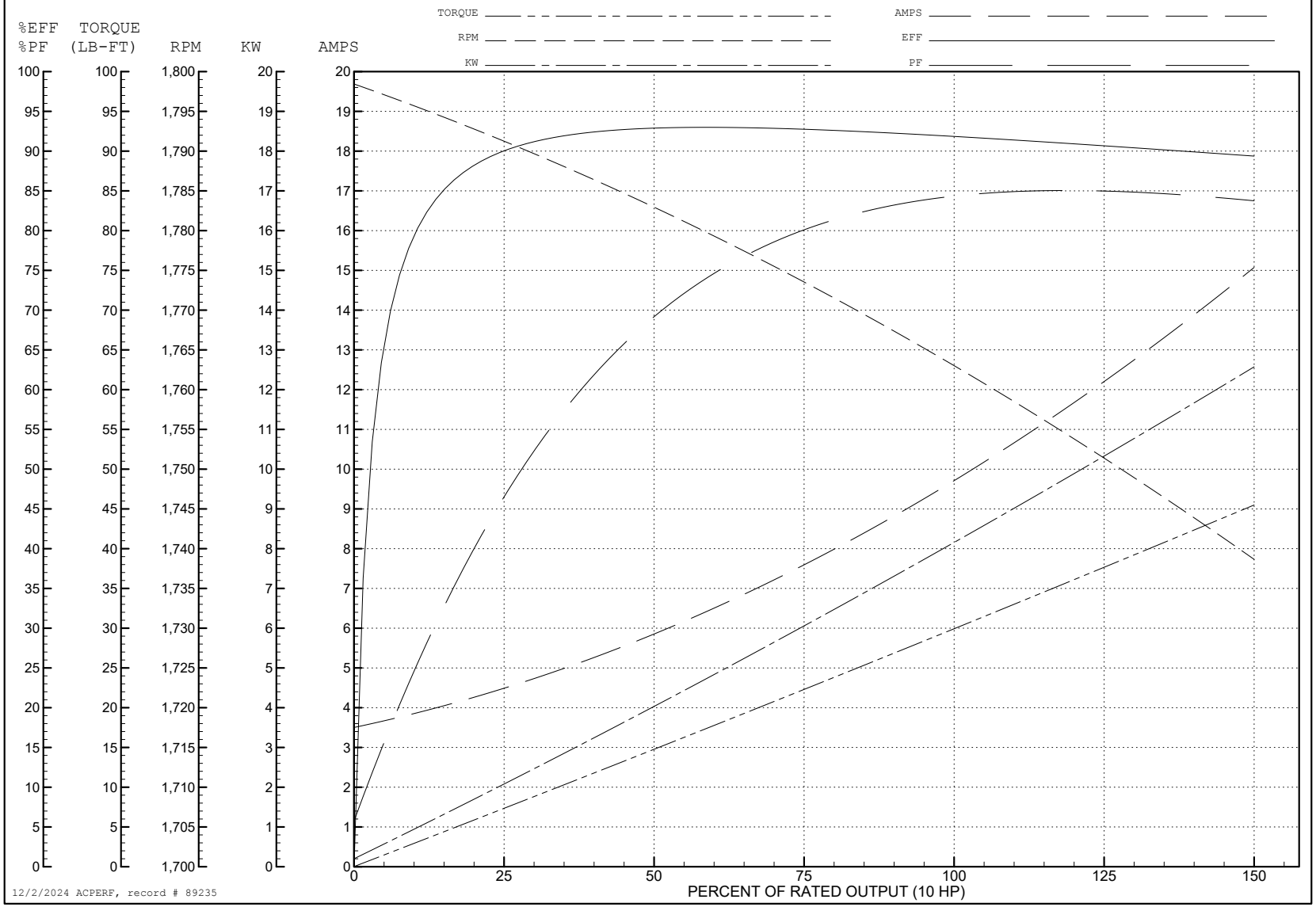
ABB Motors and Mechanical Inc.

WINDING # 07WGY729

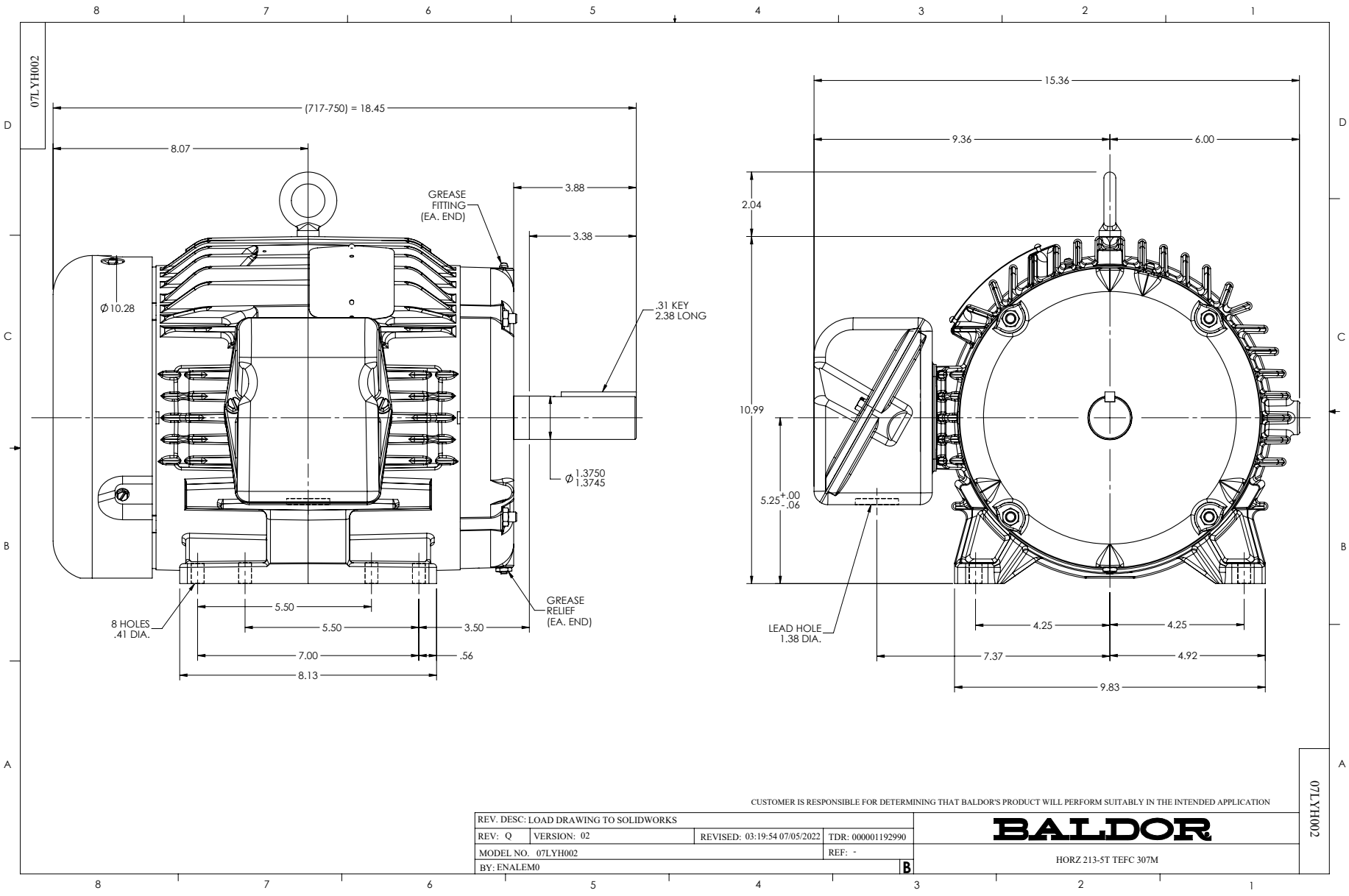
10 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=82.63 PU=41.23 LR=53.91 LRA=66.29

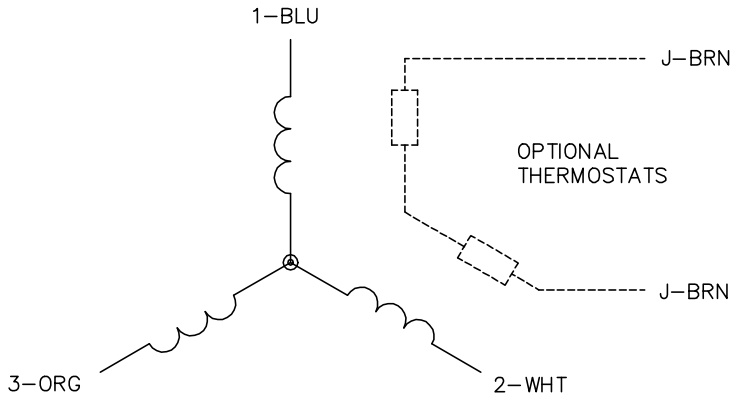


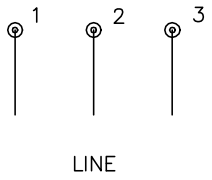
12/2/2024 ACPERF, record # 89235


07LYH002
(717-750) = 18.45
8.07
3.88
3.38
GREASE FITTING (EA. END)
Ø10.28
.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

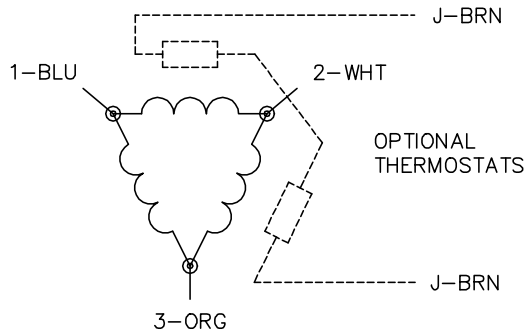
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1