



Customer information packet

VEM3774T-5

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
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

Part detail

Revision	Y
Type	AC
Mech. spec.	07G082
Base	
Status	PRD/A
Elec. spec.	07WGY729
Layout	07LYG082
Eff. date	05-28-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	05-10-2010

High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	19.20 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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

NP3441L											
CAT.NO.	VEM3774T-5										
SPEC.	07G082Y729G1										
HP	10										
VOLTS	575										
AMP	9.8										
RPM	1760										
FRAME	215TC		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								
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
	SFA 11.2										

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. @ 25°C		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

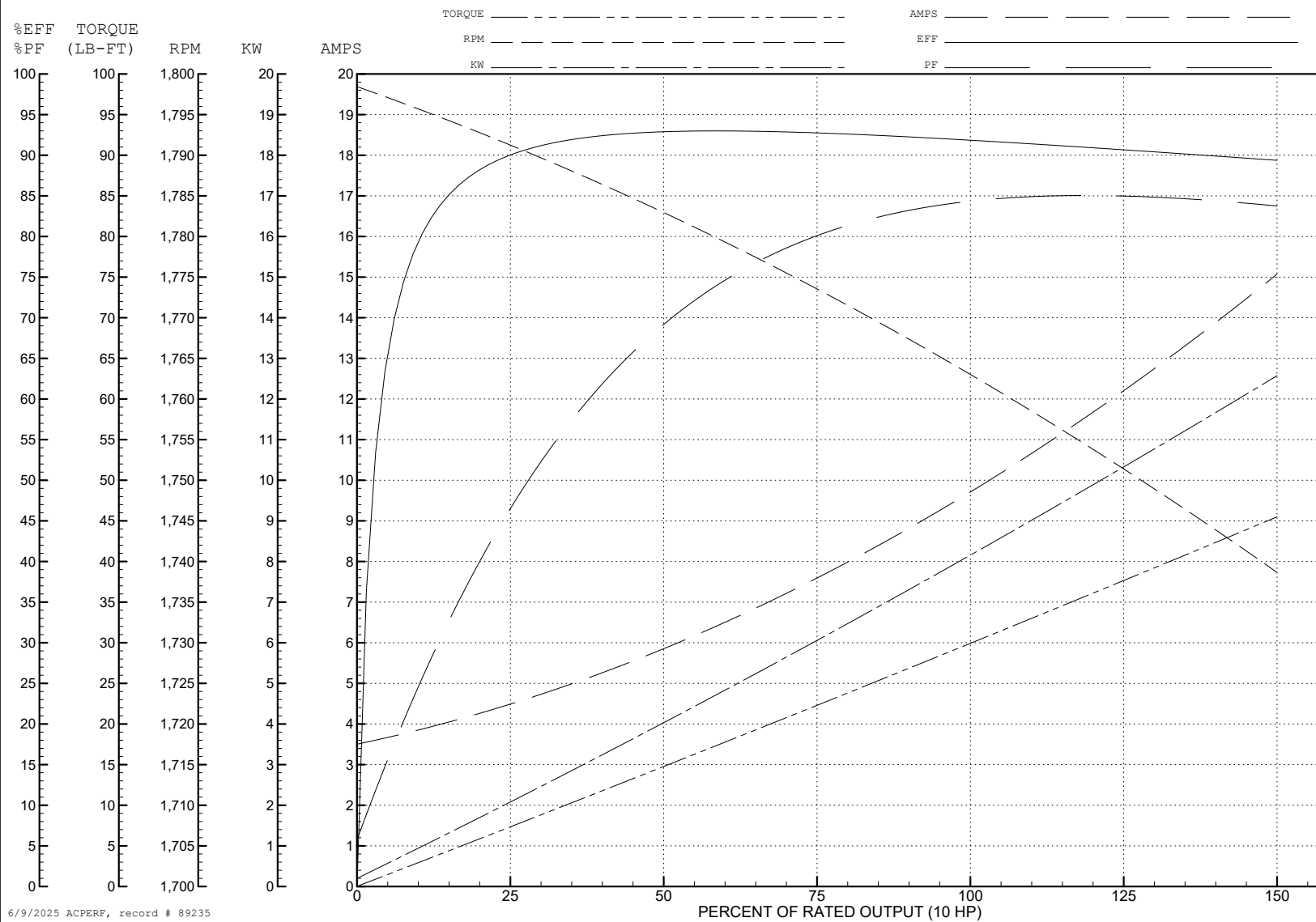
ABB Motors and Mechanical Inc.

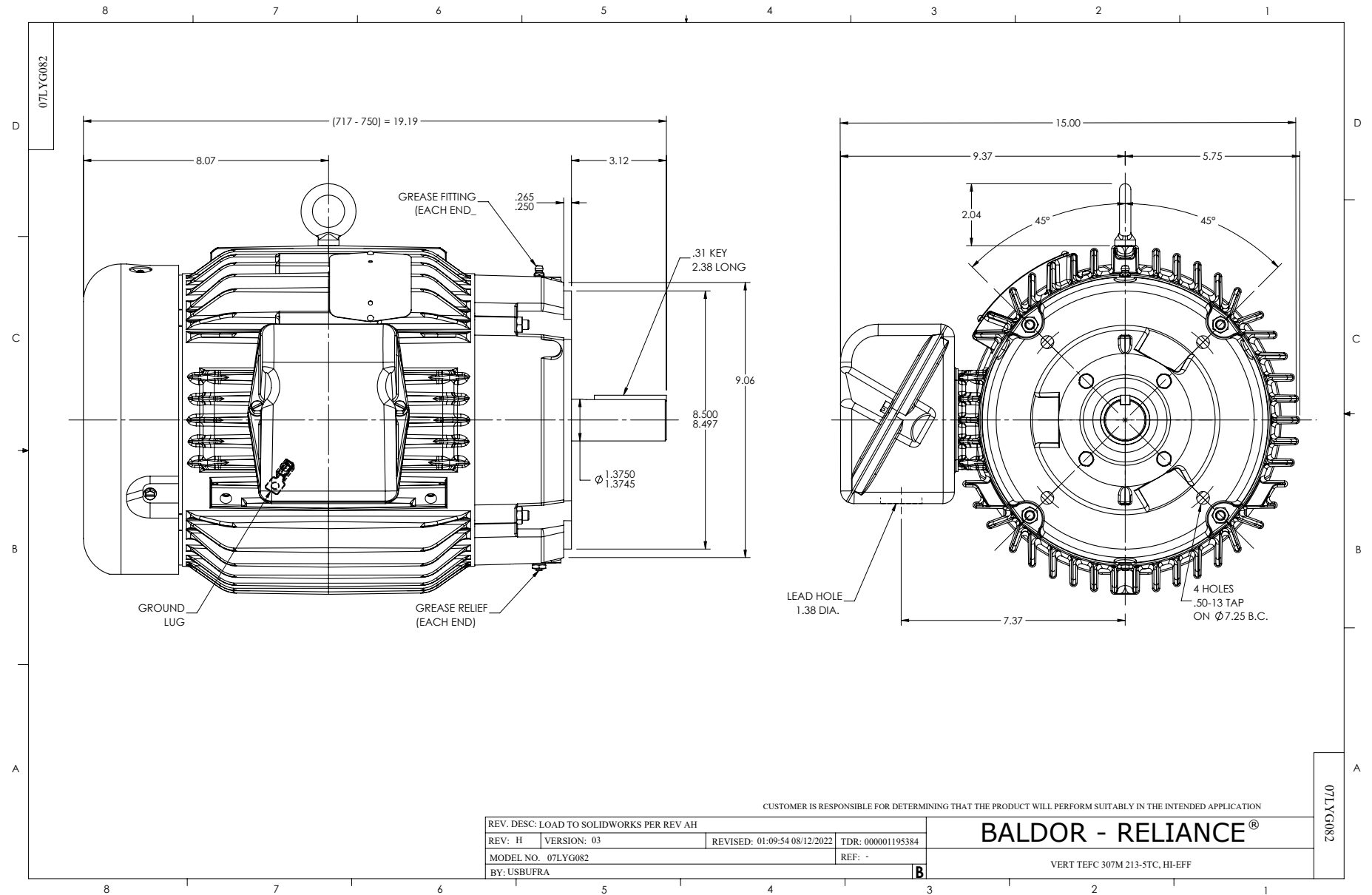
WINDING # 07WGY729

Typical performance - not guaranteed values.

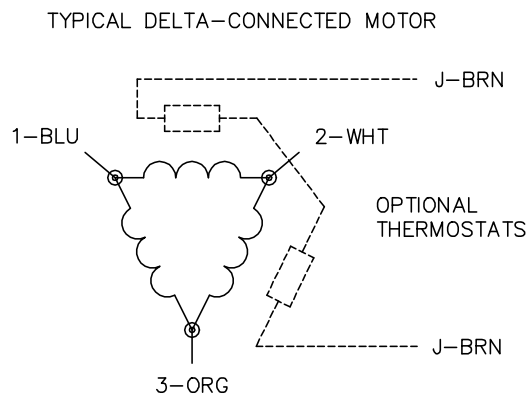
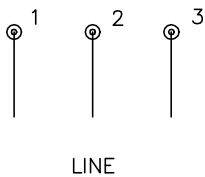
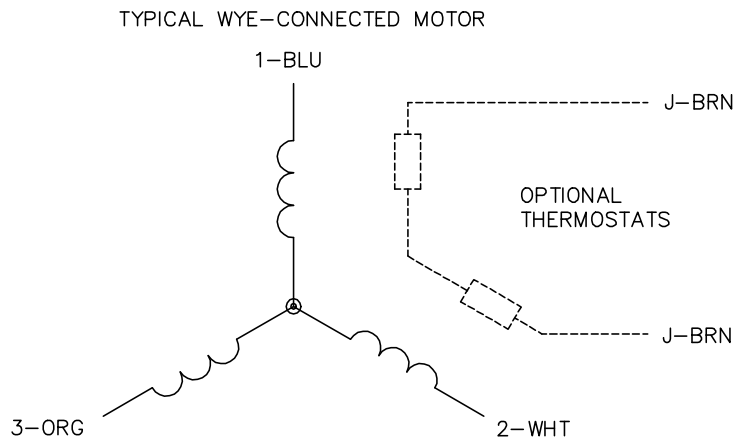
10 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

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





CD0006



- 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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

SH 1 of 1