ABB BALDOR RELIANCE

Customer information packet

EM3663T-G

5HP, 3480RPM, 3PH, 60HZ, 184T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184T
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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM CURUSEEV
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	11.600 A @ 230.0 V 12.400 A @ 208.0 V 5.800 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX782
Layout	06LYG729
Eff. date	01-09-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-09-2019

High Voltage Full Load Amps	5.8 a
Insulation Class	H
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.23 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3480 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.	EM3663T-G									
SPEC	06-0000-0080									
HP	5									
VOLTS	208-230/460									
AMPS	12.4-11.6/5.8									
RPM	3480									
FRAME	184T	**HZ**	60		**PH**	3				
SF	1.15	**CODE**	L	**DES**	A	**CLASS**	H			
NEMA NOM. EFF	88.5	**PF**	90							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6206	**ODE**	6205							
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 5HP 190/380V 14/7A									SF1.0

AC Induction Motor Performance Data
Record # 108383
Typical performance - not guaranteed values

Winding: 06WGX782-R020	**Type:** 0628M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.55 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			12.4-11.6/5.8	**Breakdown Torque**	35.8 LB-FT
R.P.M.			3480	**Pull-up Torque**	23.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.7 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	59.9 A
Service Factor (S.F.)			1.15	**No-load Current**	2.05 A
NEMA Nom. Eff.	88.5	**Power Factor**	90	**Line-line Res. @ 25ºC**	2.7676 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps				**Temp. Rise @ S.F. Load**	71°C
				Locked-rotor Power Factor	51.5
				Rotor inertia	0.125 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	77	87	91	93	94	92
Efficiency	85.8	89.9	90.1	89.3	87.9	86.2	88.5
Speed	3573.6	3546.9	3516.7	3485.2	3451.8	3413.3	3465
Line amperes	2.45	3.35	4.53	5.8	7.17	8.69	6.62

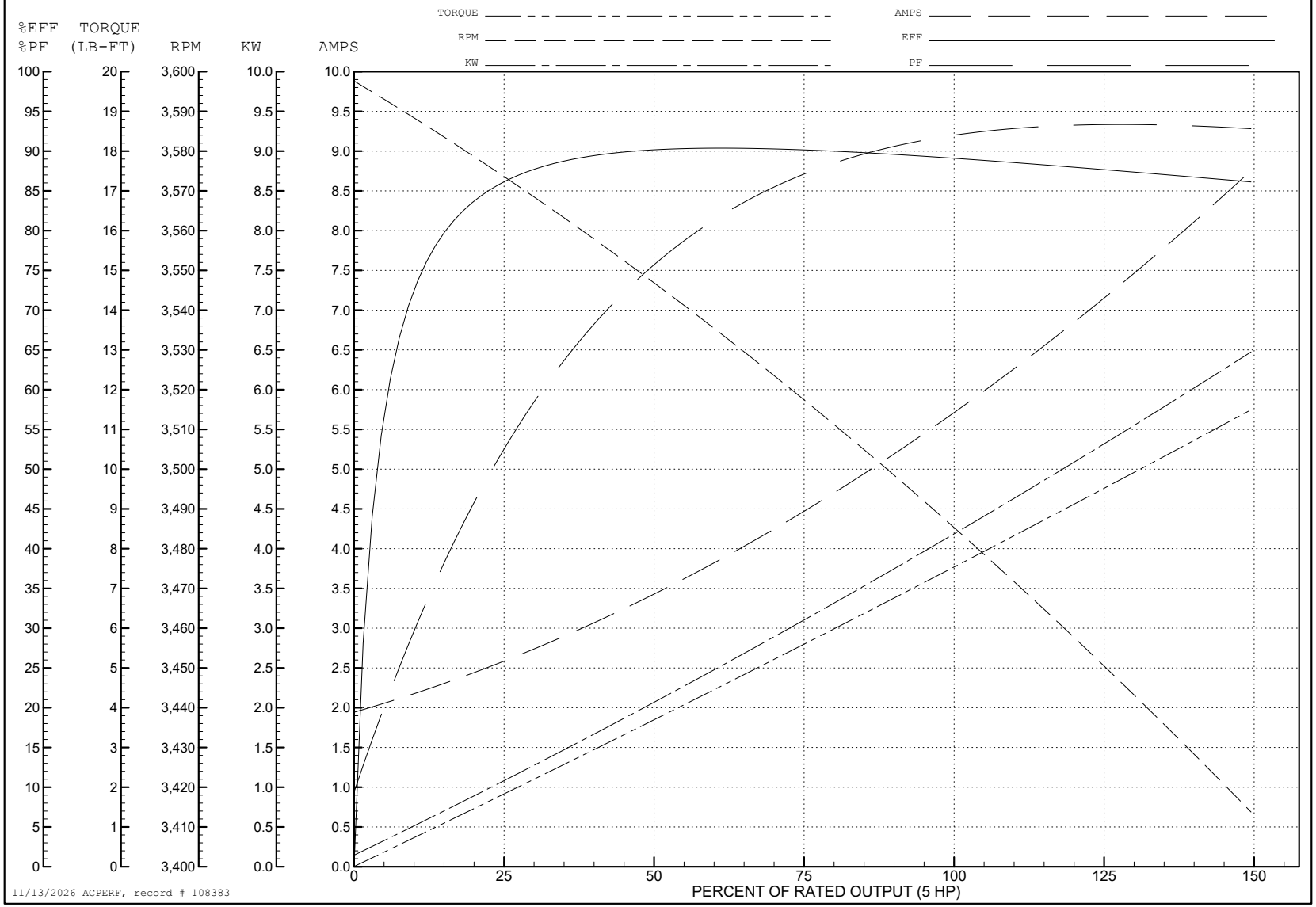
ABB Motors and Mechanical Inc.

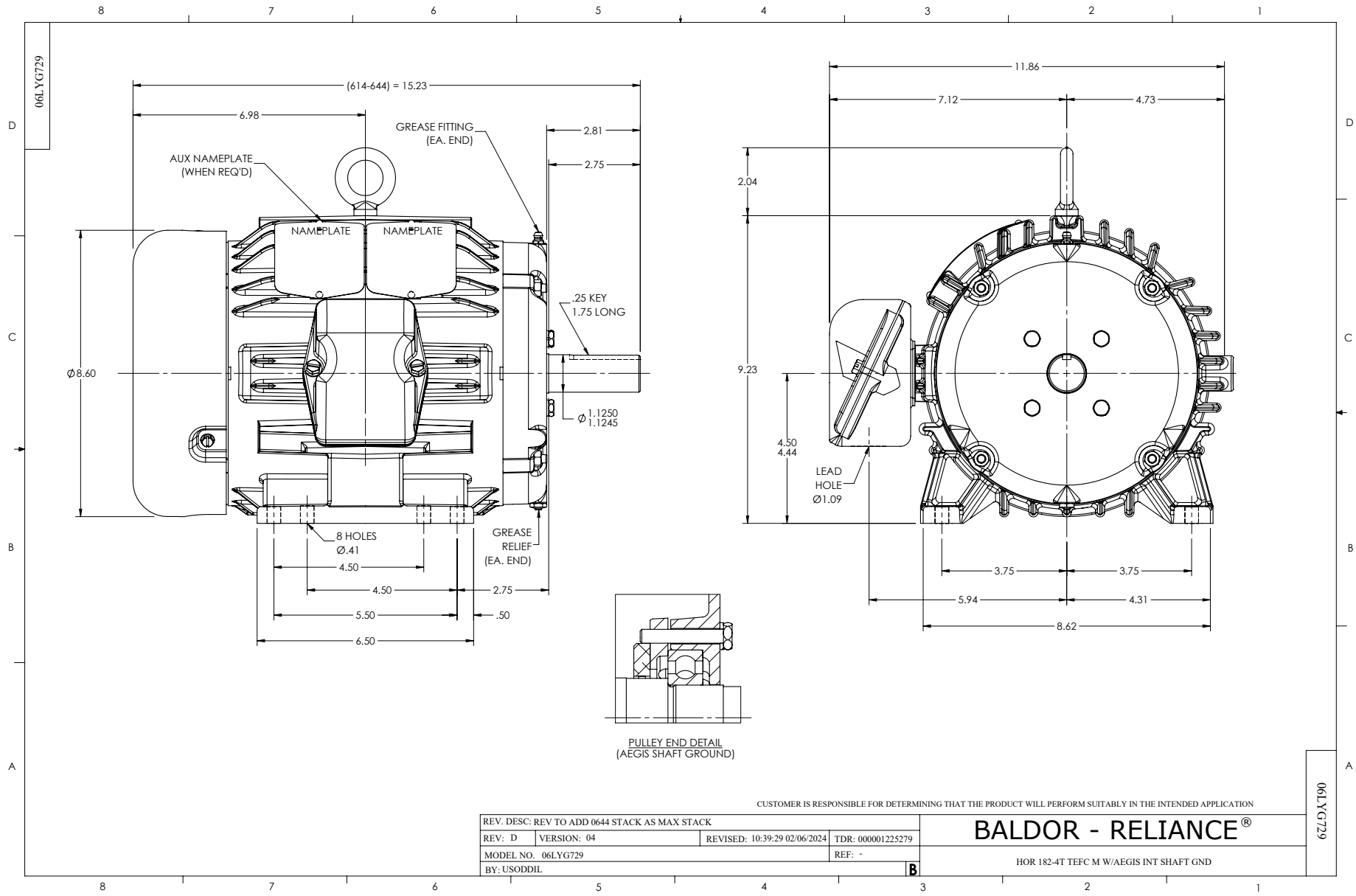
WINDING # 06WGX782

5 HP 3 PH 60 HZ 3480 RPM 460 V 0628M

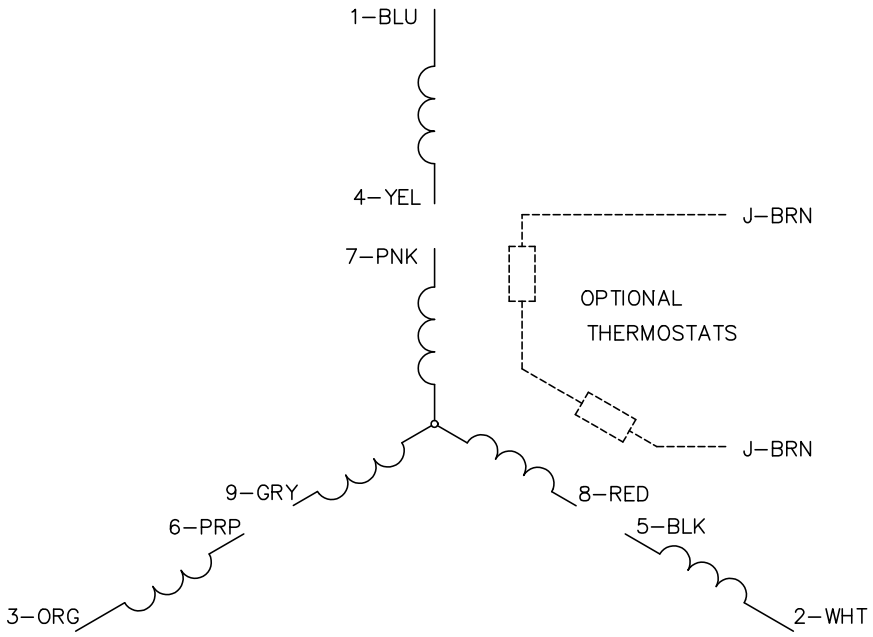
Typical performance - not guaranteed values.

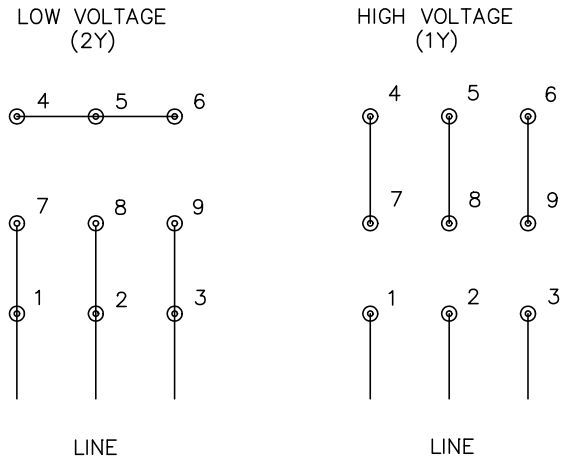
TORQUES(LB-FT): PO=35.8 PU=23.1 LR=27.7 LRA=59.9




06LYG729
(614-644) = 15.23
6.98
GREASE FITTING
(EA. END)
2.81
2.75
AUX NAMEPLATE
(WHEN REQ'D)
NAMEPLATE
NAMEPLATE
.25 KEY
1.75 LONG
Ø8.60
Ø 1.1250
1.1245
8 HOLES
Ø.41
GREASE
RELIEF
(EA. END)
4.50
4.50
2.75
5.50
.50
6.50
11.86
7.12
4.73
2.04
9.23
4.50
4.44
LEAD
HOLE
Ø1.09
3.75
3.75
5.94
4.31
8.62
PULLEY END DETAIL
(AEGIS SHAFT GROUND)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REV TO ADD 0644 STACK AS MAX STACK
REV: D
VERSION: 04
REVISED: 10:39:29 02/06/2024
TDR: 000001225279
MODEL NO. 06LYG729
REF: -
BY: USODDIL
B
BALDOR - RELIANCE®
HOR 182-4T TEFC M W/AEGIS INT SHAFT GND
06LYG729

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