ABB BALDOR RELIANCE

Customer information packet

EM3665T-8G

5HP, 1750RPM, 3PH, 60HZ, 184T, 0641M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA UR
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	15.100 A @ 200.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	15.1 a
Insulation Class	H

Part Detail

Revision	K
Type	AC
Mech. spec.	06G729
Base	
Status	PRD/A
Elec. spec.	06WGX201
Layout	06LYG729
Eff. date	12-23-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	09-11-2013

Inverter Code	Inverter Ready
KVA Code	J
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	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.23 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.	EM3665T-8G								
SPEC.	06G729X201G1								
HP	5								
VOLTS	200								
AMP	15.1								
RPM	1750								
FRAME	184T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	H		
NEMA-NOM-EFF	89.5	**PF**	79						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

AC Induction Motor Performance Data
Record # 50348
Typical performance - not guaranteed values

Winding: 06WGX201-R005	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			15.1	**Breakdown Torque**	52.6 LB-FT
R.P.M.			1750	**Pull-up Torque**	21.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.9 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	104 A
Service Factor (S.F.)			1.15	**No-load Current**	6.71 A
NEMA Nom. Eff.	89.5	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.505 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	53°C
S.F. Amps				**Temp. Rise @ S.F. Load**	66°C
				Locked-rotor Power Factor	40.3
				Rotor inertia	0.391 LB-FT2

Load Characteristics 200 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	64	75	82	84	85	81
Efficiency	85.5	89.9	90.2	89.8	88.4	86.6	88.9
Speed	1788	1777	1764	1751	1736	1719	1738
Line amperes	7.49	9.34	11.9	14.7	18.1	21.8	17.1

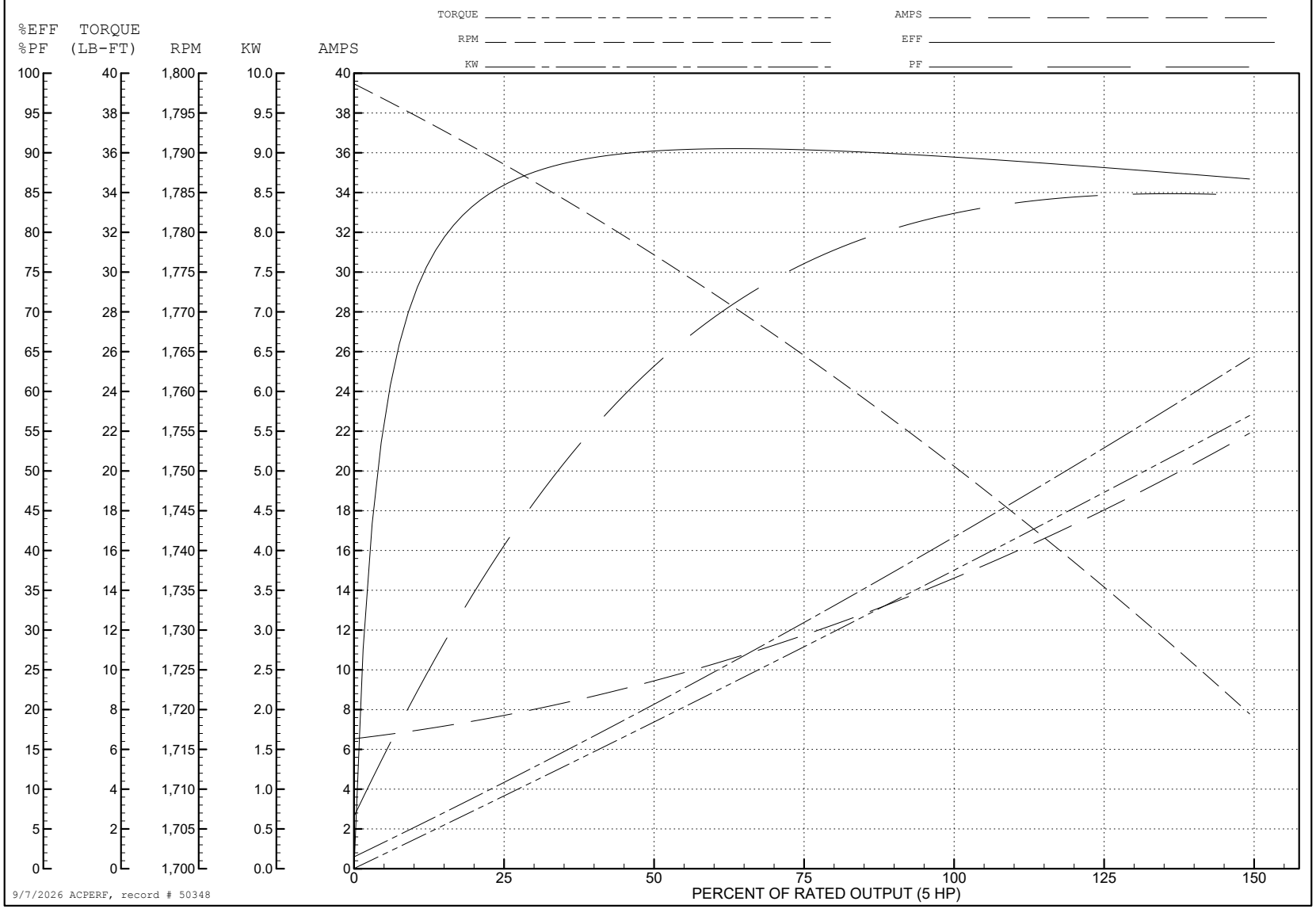
ABB Motors and Mechanical Inc.

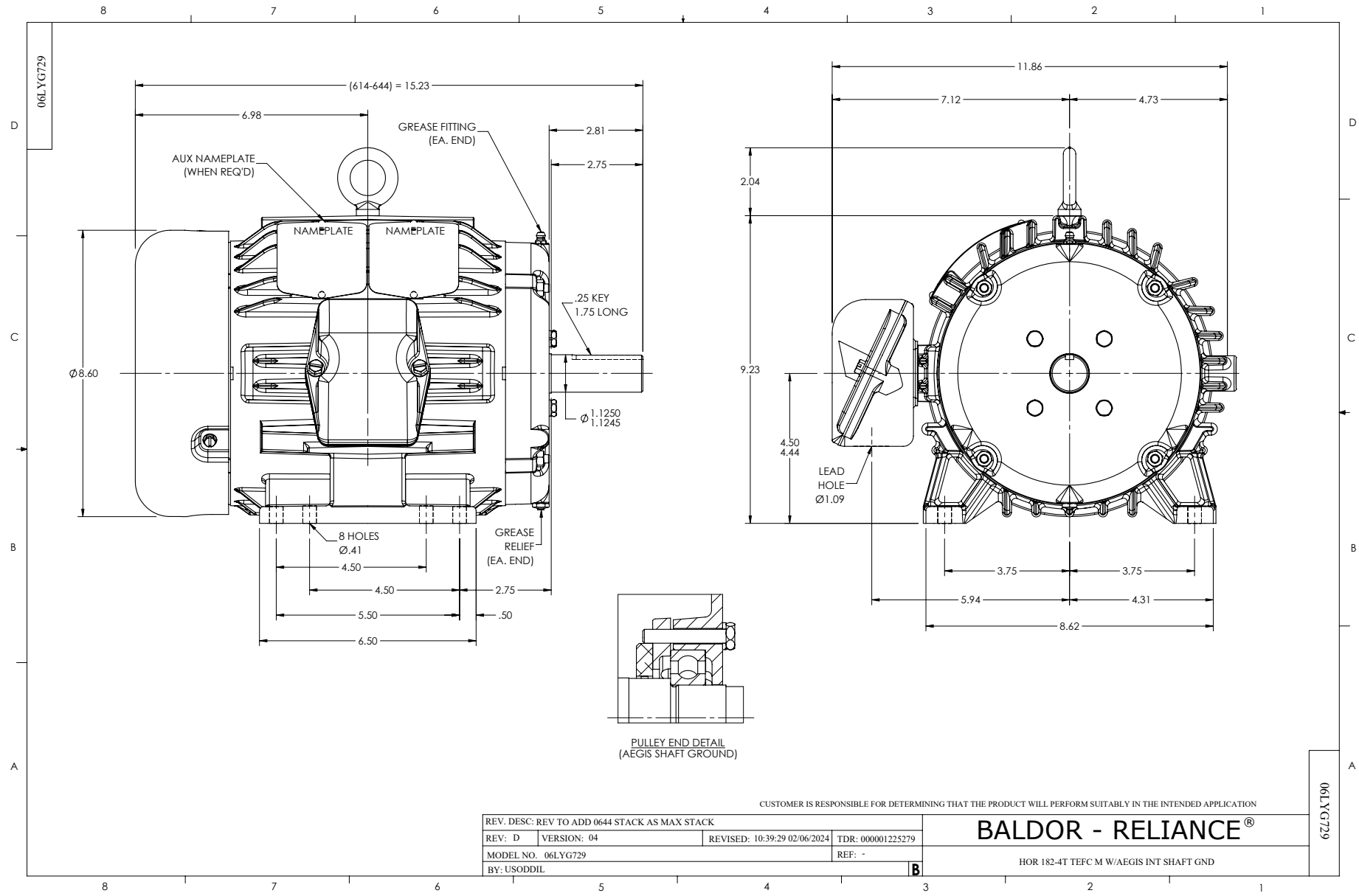
WINDING # 06WGX201

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 200 V 0642M

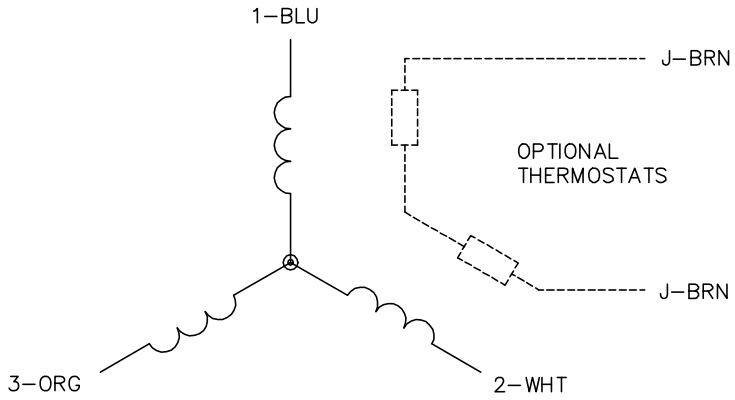
TORQUES(LB-FT): PO=52.6 PU=21.8 LR=30.9 LRA=104

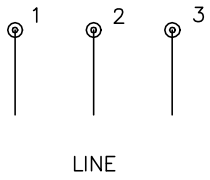



06LYG729
(614-644) = 15.23
6.98
GREASE FITTING (EA. END)
2.81
2.75
AUX NAMEPLATE (WHEN REQ'D)
NAMEPLATE
NAMEPLATE
Ø8.60
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
8 HOLES
Ø.41
GREASE RELIEF (EA. END)
4.50
4.50
2.75
5.50
.50
6.50
11.86
7.12
4.73
2.04
9.23
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
5.94
4.31
8.62
PULLEY 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

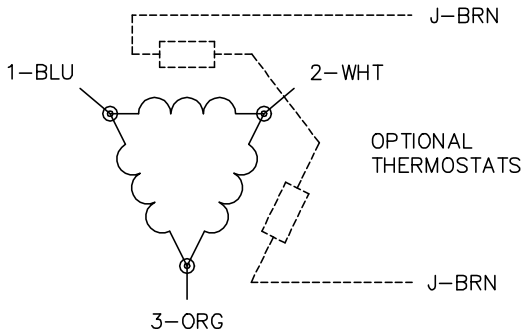
CD0006

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