

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
Auxillary Box	No Auxillary Box
Auxillary 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	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX782
Layout	06LYG729
Eff. date	09-30-2024
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

Parts list

Part number	Description	Quantity
SA368281	SA 06-0000-0080	1.000 ea
RA357781	RA 06-0000-0080	1.000 ea
34FN3002B02	EXTERNAL FAN, PLASTIC, .905/.907 HUB W/	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3441LUA	AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
36FH4009A31	IEC FH W/GREASER & SPL NOTCH, W/ PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
51XB0818A12	8-18X3/4 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101A53	THRUBOLT 1/4-20 X 10.50	4.000 ea
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36EP1101A21	FR ENDPLATE, MACH	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
BP5310A02	AEGIS SH GRD ASSY W/RETAINER RING	1.000 ea
36EP1100B01	PUEP 6206 BRG W/STD DRN, GRSR,RLF,LOCKED	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	1.000 ea
06GS1000	GASKET,CONDUIT BOX	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea

06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
MG1050Y01	CELEROL BALDOR GOLD *** NLA IN 5 GALLON	0.022 ga
36PA1001	PKG GRP, PRINT PK1017A06	1.000 ea
HW2501E17	.250 SQUARE X 1.875 LONG LOW CARBON STEE	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

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	Locked-rotor Torque	27.7 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	59.9 A	
Service Factor (S.F.)	1.15	No-load Current	2.05 A	
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	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-ft ²	

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

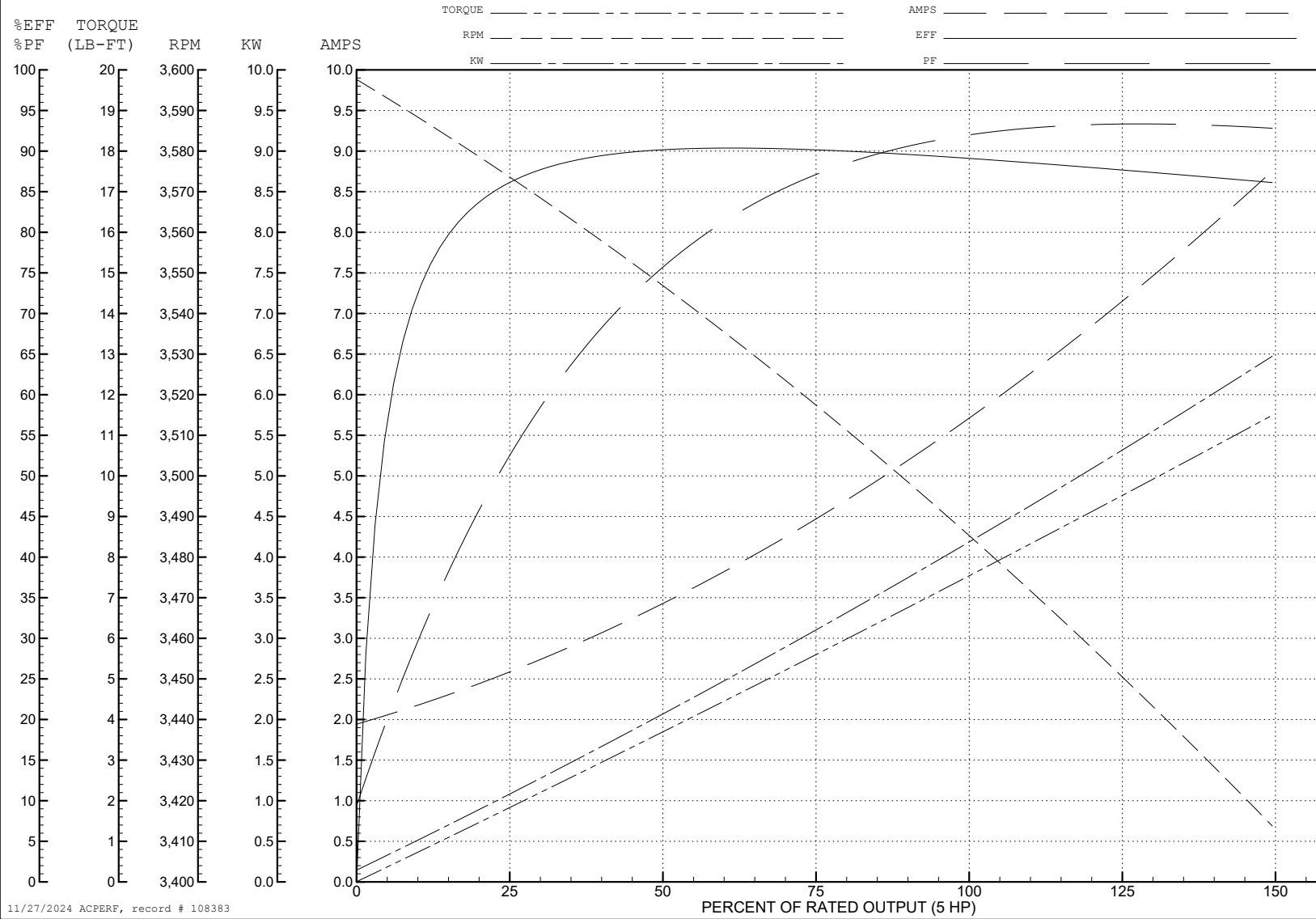
ABB Motors and Mechanical Inc.

WINDING # 06WGX782

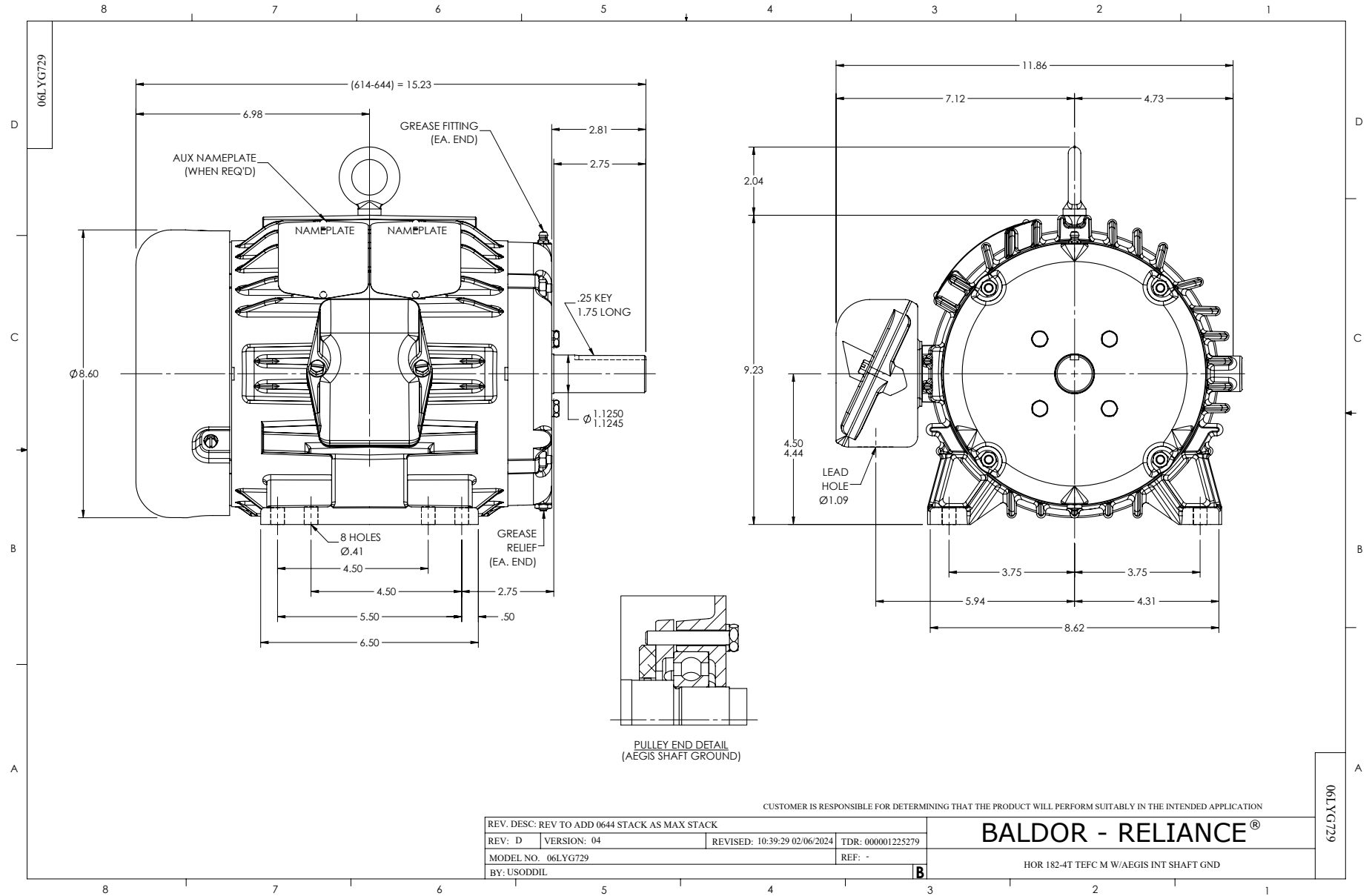
Typical performance - not guaranteed values.

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

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



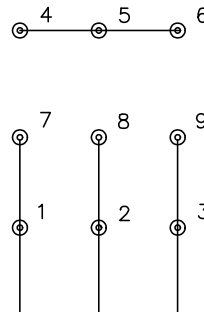
11/27/2024 ACPERF, record # 108383



CD0005

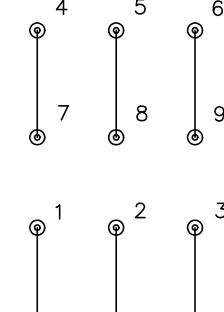


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005