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# Customer information packet

## HBEM3664T

42M 6P TEFC HOR 184T  
Class - None  
Division - Not Applicable

## 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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
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	6.300 A @ 230.0 V 6.600 A @ 208.0 V 3.150 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	D
Type	AC
Mech. spec.	06L568
Base	
Status	PRD/A
Elec. spec.	06WGW970
Layout	06LYL568
Eff. date	08-02-2023
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	3.2 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.23 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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**

**NP4312A01A01L**

<b>CAT #</b>	HBEM3664T				<b>SER</b>					<b>CC</b>	010A	<b>WGT</b>	<b>LBS</b>
<b>SPEC</b>	06L568W970G1				<b>RATING</b>	40C AMB-CONT							
<b>HZ</b>	<b>VOLTS</b>		<b>AMPS</b>		<b>RPM</b>	<b>HP</b>	<b>SF</b>	<b>NEMA NOM. EFF</b>					
60	230/460		6.3/3.15				1165	2HP	1.15	88.5			
<b>PH</b>	3	<b>CL</b>	H	<b>CODE</b>	K	<b>DES</b>	B	<b>ENCL</b>	TEFC	<b>IP</b>	54	<b>PF</b>	68 %
<b>DE BRG</b>	6206				<b>ODE BRG</b>	6205				<b>FRAME</b>	184T		
<b>INV TYPE:</b>	<b>VPWM</b>	<b>SL HZ</b>	1.75	<b>CHP</b>	60	<b>TO</b>	90	1.5:1					
<b>WK2</b>	0.395	<b>LB FT2</b>	<b>MAX RPM</b>	1800	<b>CT</b>	6	<b>TO</b>	60	10:1				
	3.6/1.8				<b>VT</b>	3	<b>TO</b>	60	20:1				
SFA 7/3.5													

**YR**

## AC Induction Motor Performance Data

Record # 60724

Typical performance - not guaranteed values

Winding: 06WGW970-R003		Type: 0642M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	2	Full Load Torque	9.05 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	6.3/3.15	Breakdown Torque	31.2 LB-FT	
R.P.M.	1165	Pull-up Torque	16.7 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	19.9 LB-FT
NEMA Design Code	B KVA Code	K	Starting Current	20.9 A
Service Factor (S.F.)	1.15	No-load Current	1.84 A	
NEMA Nom. Eff.	88.5 Power Factor	68	Line-line Res. @ 25°C	5.12 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	27°C	
S.F. Amps		Temp. Rise @ S.F. Load	32°C	
		Locked-rotor Power Factor	28.5	
		Rotor inertia	0.395 LB-FT <sup>2</sup>	

## Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	60	68	73	75	71
Efficiency	79.2	86.4	88.1	88.7	87.4	86.3	87.9
Speed	1193	1186	1178	1170	1161	1150	1165
Line amperes	1.97	2.26	2.67	3.14	3.68	4.33	3.46

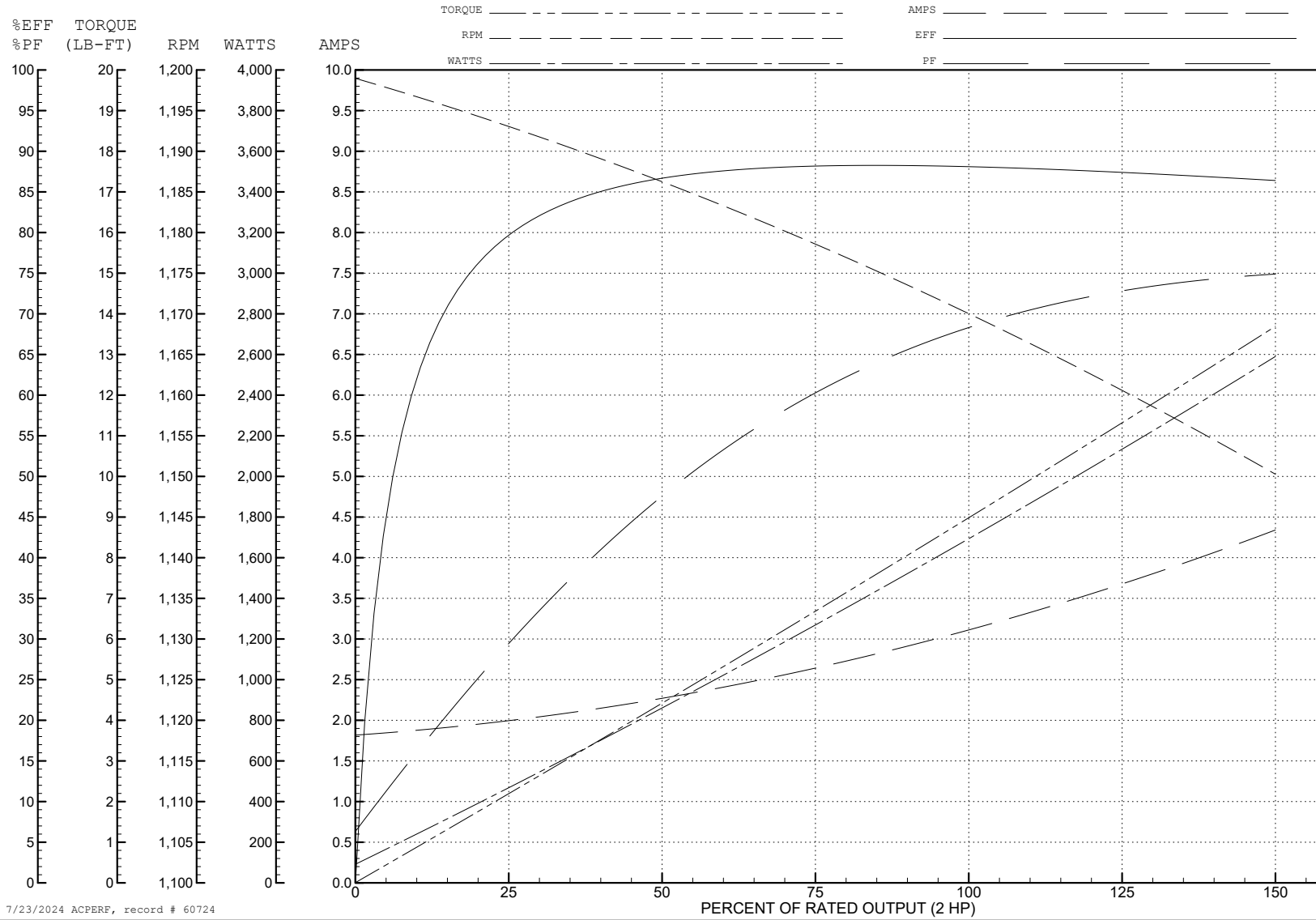
ABB Motors and Mechanical Inc.

WINDING # 06WGW970

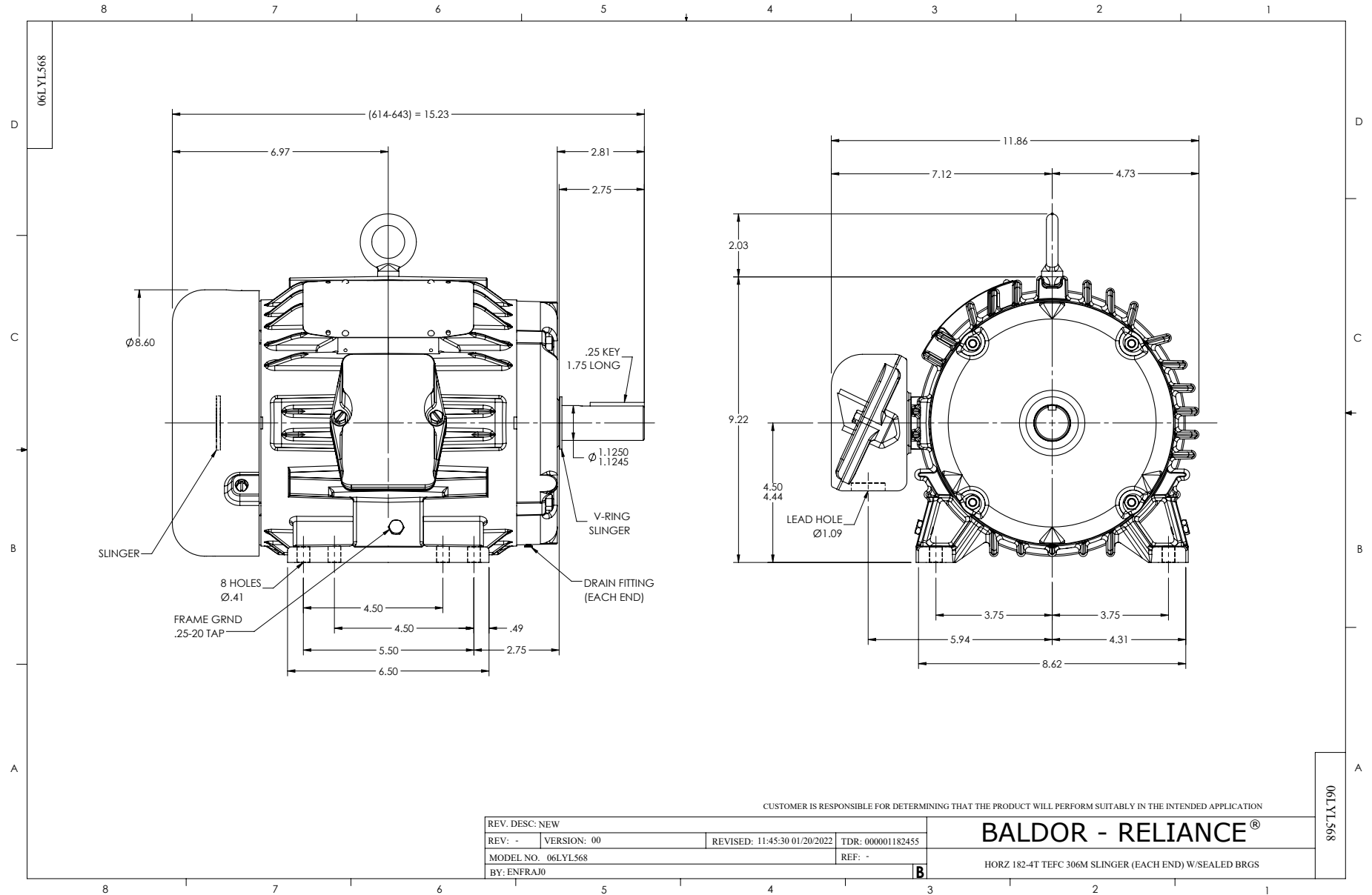
2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=20.9



7/23/2024 ACPERF, record # 60724



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.

CD0005

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