

BALDOR • RELIANCE

Customer information packet

HBEM3584T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 0524M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	4.600 A @ 230.0 V 4.640 A @ 208.0 V 2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	B
Type	AC
Mech. spec.	05H396
Base	
Status	PRD/A
Elec. spec.	05WGX510
Layout	05LYH396
Eff. date	08-02-2023
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

High Voltage Full Load Amps	2.3 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.54 IN
Power Factor	72
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	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

CAT #	HBEM3584T				SER					CC	010A	WGT	58	LBS
SPEC	05H396X510G1				RATING	40C AMB-CONT								
HZ	VOLTS		AMPS		RPM	HP	SF	NEMA NOM. EFF						
60	230/460		4.6/2.3				1770	1.5	1.00	86.5				
PH	3	CL	H	CODE	M	DES	B	ENCL	TEFC	IP	54	PF	72	%
DE BRG	6205				ODE BRG	6203				FRAME	145T			
INV TYPE:	VPWM	SL HZ	1	CHP	60	TO	90	1.5:1						
WK2	0.174	LB FT2	MAX RPM	2700	CT	O	TO	60	1000:1					
	3/1.5		VT	O	TO	60	1000:1							

SFA 6.4/3.2

YR

AC Induction Motor Performance Data

Record # 92018

Typical performance - not guaranteed values

Winding: 05WGX504-R003		Type: 0526M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	1.5		Full Load Torque	4.49 LB-FT	
Volts	230/460		Start Configuration	direct on line	
Full Load Amps	4.4/2.2		Breakdown Torque	19.4 LB-FT	
R.P.M.	1760		Pull-up Torque	10.7 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	13.5 LB-FT	
NEMA Design Code	B KVA Code	M	Starting Current	19.4 A	
Service Factor (S.F.)	1.15		No-load Current	1.43 A	
NEMA Nom. Eff.	86.5 Power Factor	72	Line-line Res. @ 25°C	9.76 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	35°C	
S.F. Amps			Temp. Rise @ S.F. Load	41°C	
			Locked-rotor Power Factor	52.7	
			Rotor inertia	0.154 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	50	63	72	78	81	76
Efficiency	75.2	83.9	86.4	87	86.6	85.7	86.8
Speed	1790	1781	1772	1763	1752	1741	1756
Line amperes	1.51	1.69	1.94	2.25	2.62	3.02	2.47

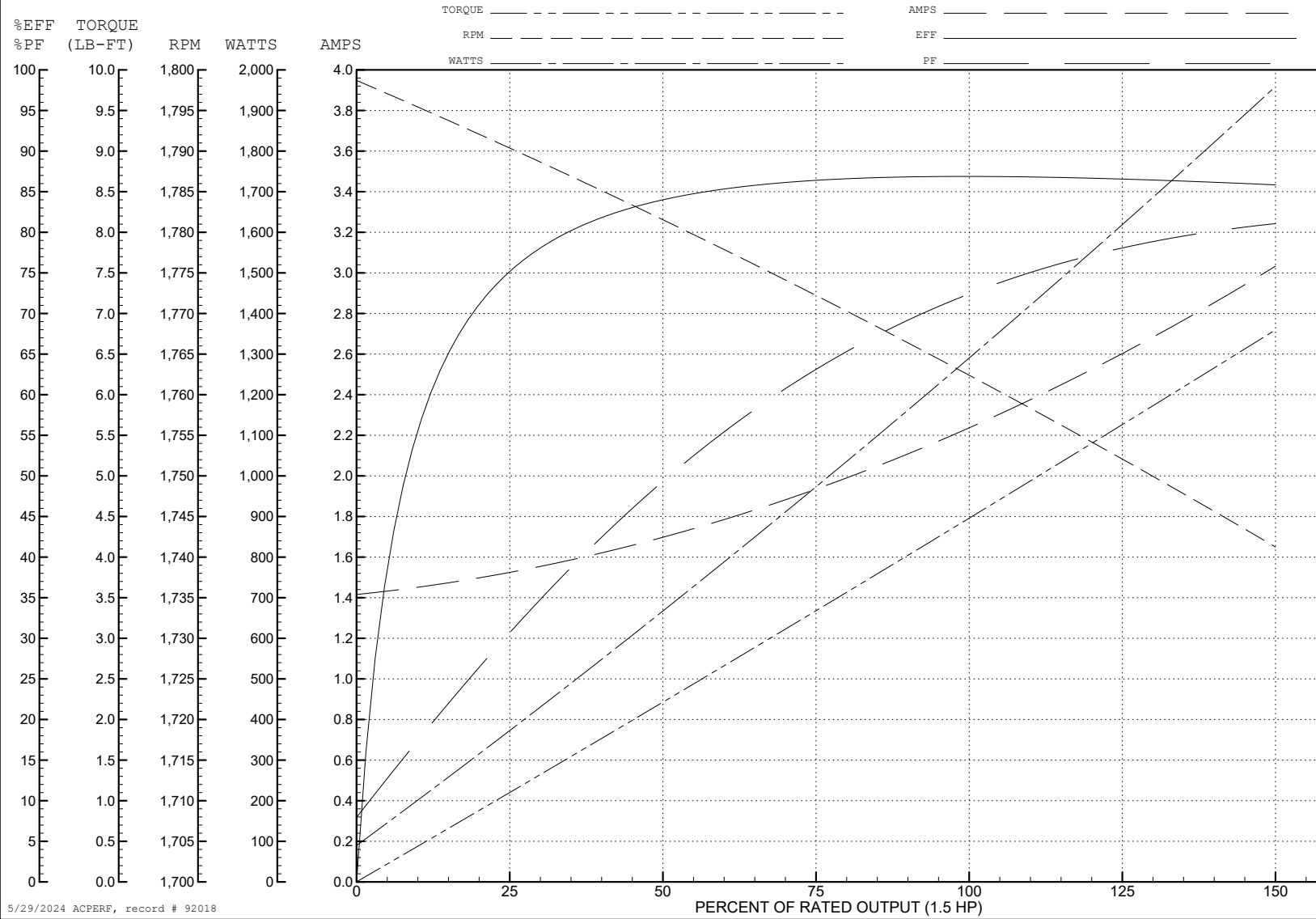
ABB Motors and Mechanical Inc.

WINDING # 05WGX504

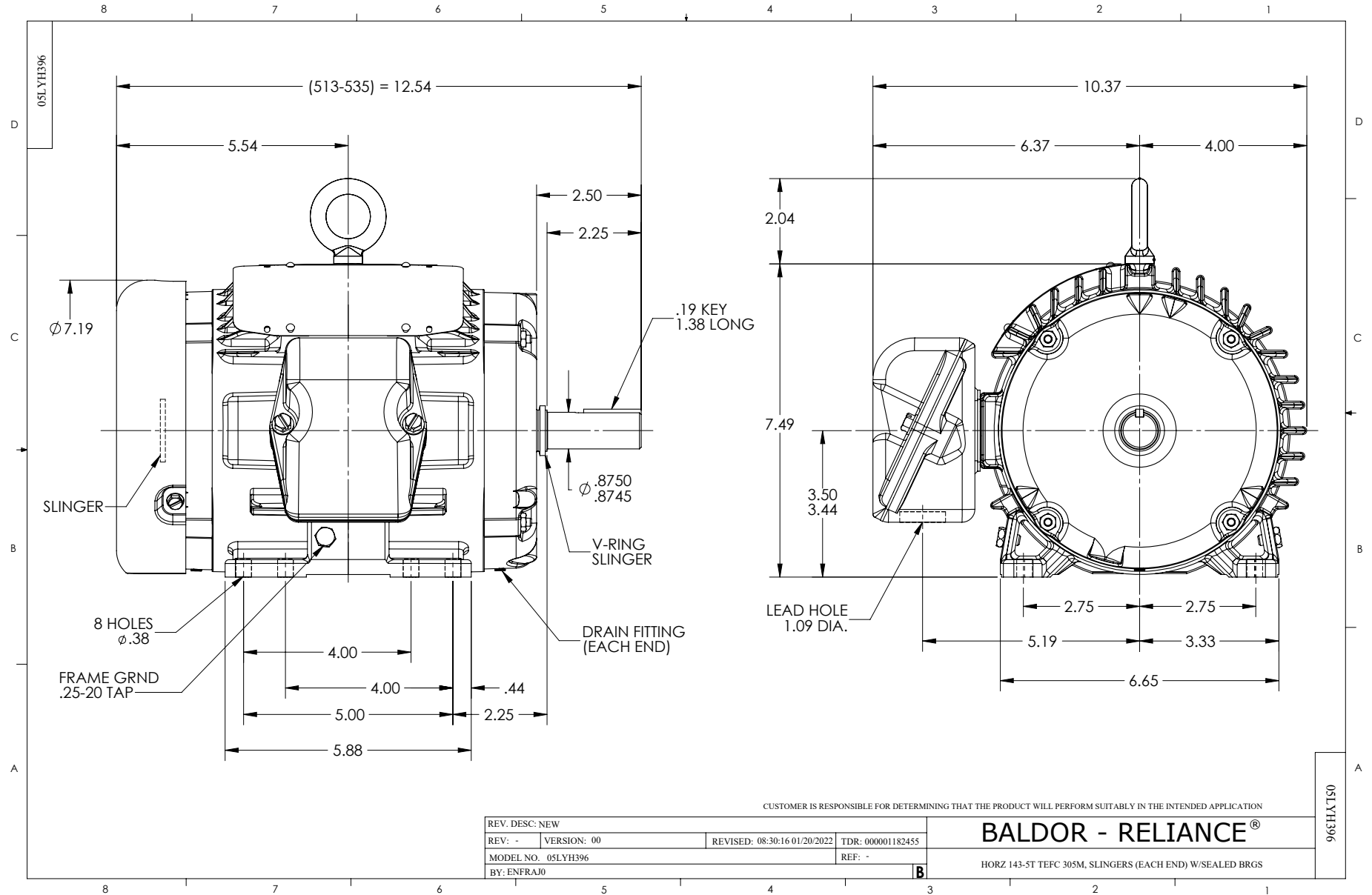
1.5 HP 3 PH 60 HZ 1760 RPM 460 V 0526M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=19.4 PU=10.7 LR=13.5 LRA=19.4



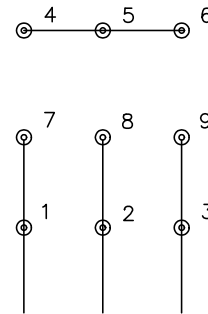
5/29/2024 ACPERF, record # 92018



CD0005

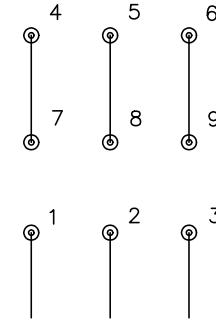


LOW VOLTAGE
(2Y)



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