BALDOR • RELIANCE

Customer information packet

HBAO3665T

5 AOHP, 1740RPM, 3PH, 60HZ, 184T, 0642M, TEAO
Class - None
Division - Not Applicable

10/5/2024 2:04:00 AM

Specifications

Enclosure	TEAO
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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	6.500 A @ 460.0 V
	13.700 A @ 208.0 V
	13.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	H
Type	AC
Mech. spec.	06K933
Base	
Status	PRD/A
Elec. spec.	06WGW567
Layout	06LYK933
Eff. date	10-09-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-21-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 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	4
Overall Length	13.89 IN
Power Factor	80
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	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

NP4312A01M05L

CAT # HBAO3665T **SER #** **CC** **WGT** 120 **LBS**

SPEC 06K933W567G2 **RATING** 40C AMB-CONT

HP	VOLTS	AMPS	MAG CUR	CODE	RPM	DES	PF	NEMA NOM. EFF
5 AO	230/460	13/6.5	7/3.5	K	1750	B	80	90.2
5.5AO	230/460	14/7	7/3.5	J	1750	-	83	88.5
6 AO	230/460	15/7.5	7/3.5	J	1740	-	85	88.5
6.5AO	230/460	16/8	7/3.5	H	1735	-	87	87.5
7 AO	230/460	17/8.5	7/3.5	G	1735	-	89	86.5

PH 3 **CL** H **HZ** 60 **ENCL** TEAO **IP** 54 **SF** 1.15 AIR OVER

DE BRG 6206 **ODE BRG** 6206 **FRAME** 184T

INV TYPE: **VPWM** **SL HZ** 1.66 **CHP** 60 **TO** 90 1.5:1

WK2 0.39 **LB FT2** **MAX RPM** 2700 **CT** 6 **TO** 60 10:1

VT 3 **TO** 60 20:1

SFA 14.6/7.3

YR:

AC Induction Motor Performance Data
Record # 95855
Typical performance - not guaranteed values

Winding: 06WGW567-R096	**Type:** 0642M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5 AIR OVER	**Full Load Torque**	14.89 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13/6.5	**Breakdown Torque**	58.3 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	41.3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	54.8 A
Service Factor (S.F.)			1.15	**No-load Current**	3.49 A
NEMA Nom. Eff.	90.2	**Power Factor**	80	**Line-line Res. @ 25ºC**	2.34 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps			14.6/7.3	**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	53
				Rotor inertia	0.39 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	59	72	79	84	85	82
Efficiency	84.8	89.7	90.8	90.5	89.7	88.5	90
Speed	1790	1780	1770	1760	1748	1734	1753
Line amperes	3.78	4.46	5.43	6.52	7.81	9.27	7.29

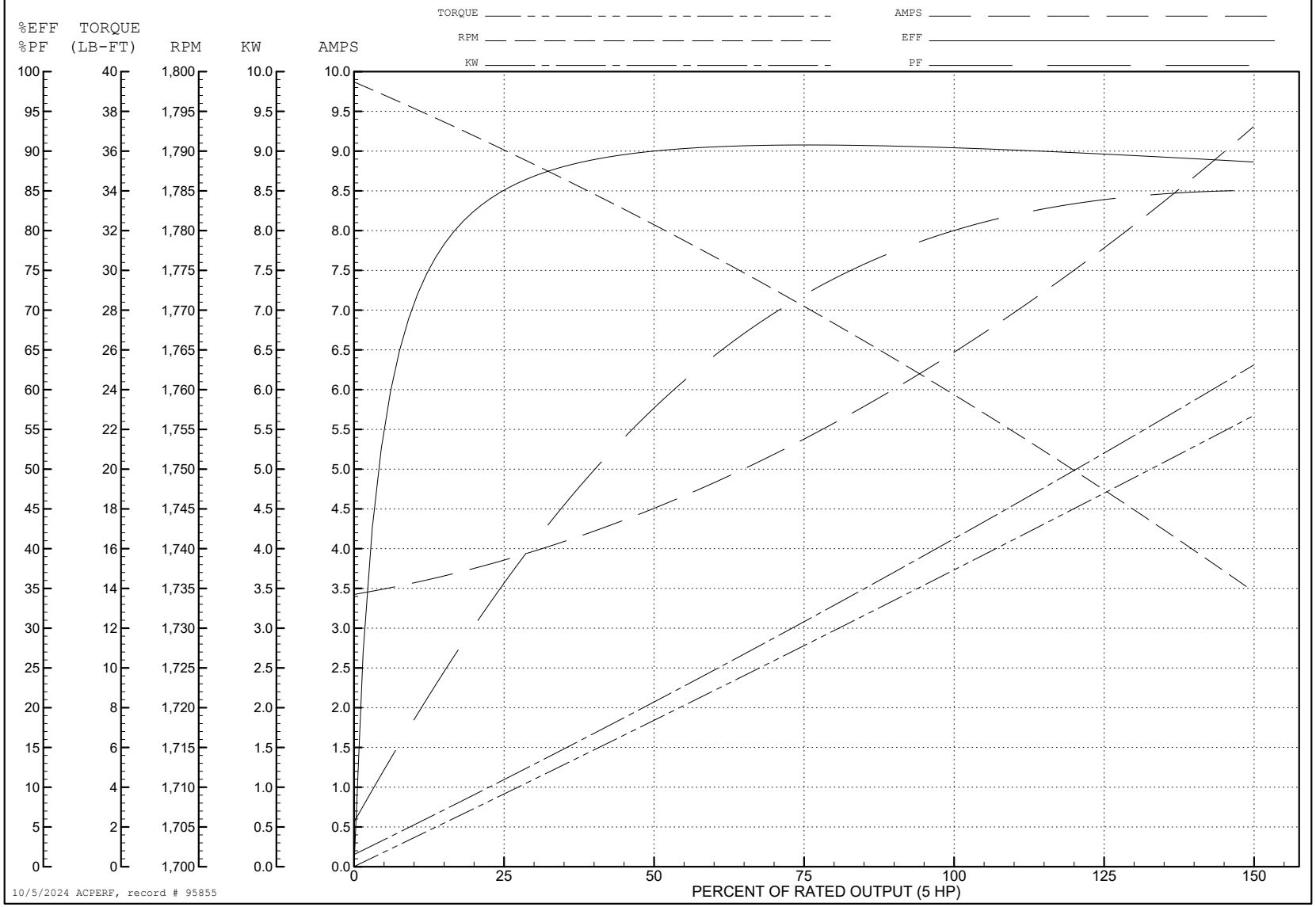
ABB Motors and Mechanical Inc.

WINDING # 06WGW567

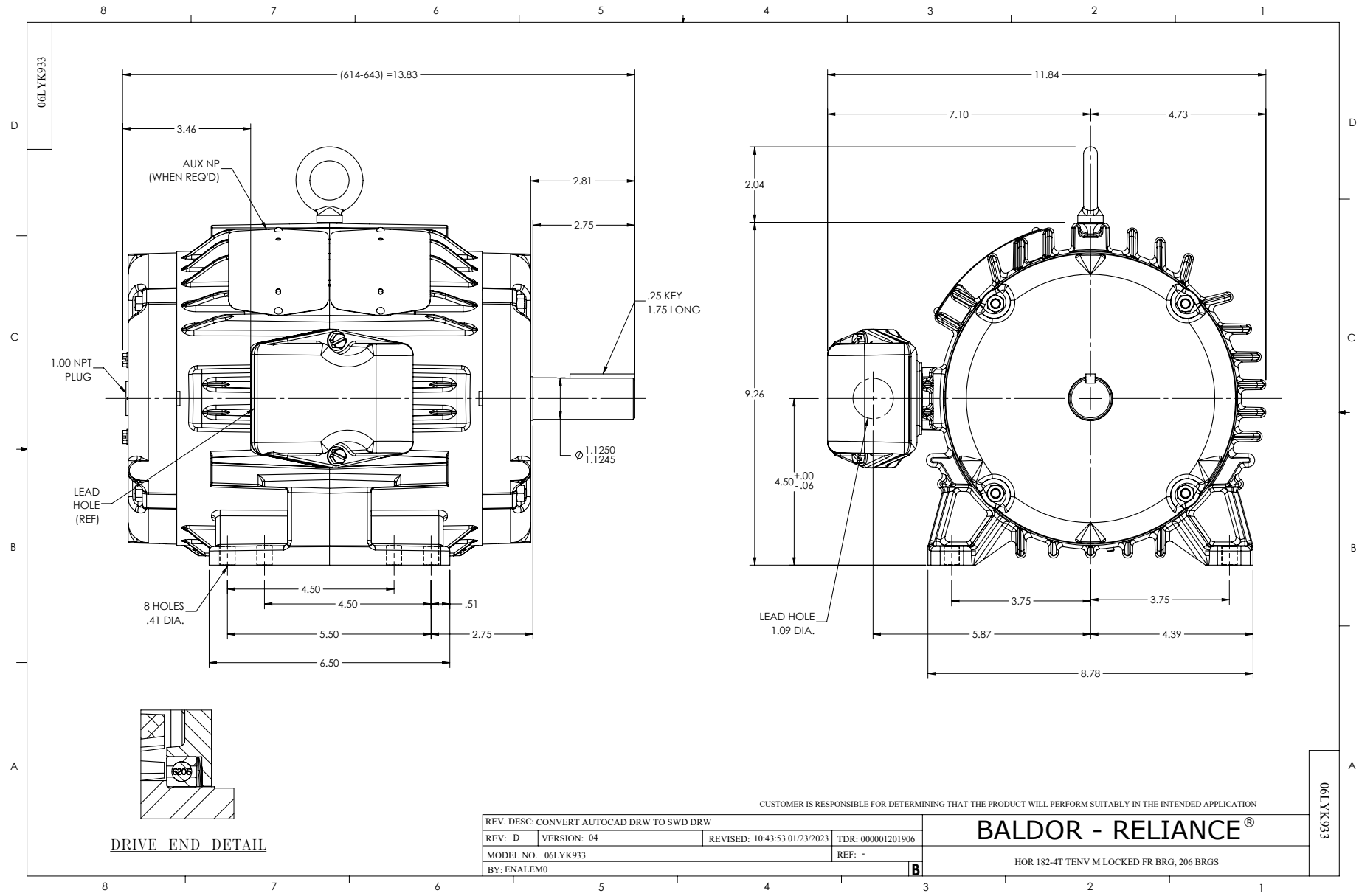
5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M

Typical performance - not guaranteed values.

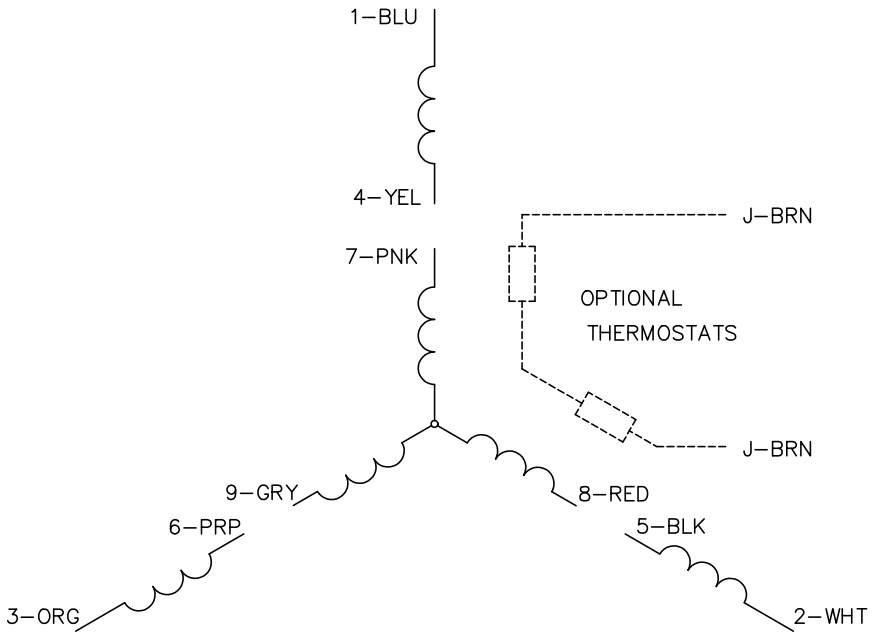
TORQUES(LB-FT): PO=58.3 PU=25.18 LR=41.3 LRA=54.8

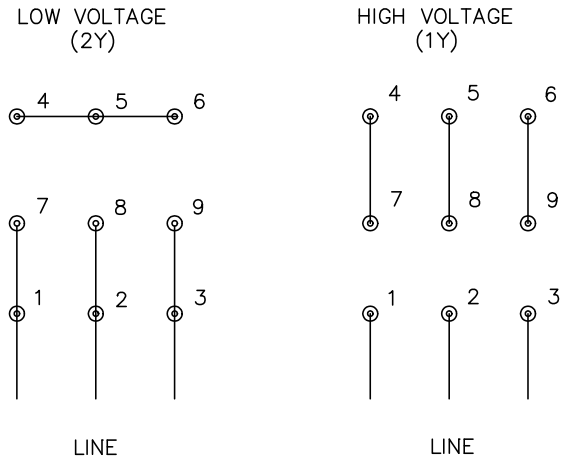


10/5/2024 ACPERF, record # 95855


06LYK933
(614-643) =13.83
3.46
AUX NP
(WHEN REQ'D)
2.81
2.75
.25 KEY
1.75 LONG
1.00 NPT
PLUG
LEAD
HOLE
(REF)
Ø 1.1250
1.1245
8 HOLES
.41 DIA.
4.50
4.50
.51
5.50
2.75
6.50
11.84
7.10
4.73
2.04
9.26
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75
5.87
4.39
8.78
6206
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: D
VERSION: 04
REVISED: 10:43:53 01/23/2023
TDR: 000001201906
MODEL NO. 06LYK933
REF: -
BY: ENALEM0
B
BALDOR - RELICANCE®
HOR 182-4T TENV M LOCKED FR BRG, 206 BRGS
06LYK933

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