ABB BALDOR RELIANCE

Customer information packet

VHECP3663T

5HP, 3490RPM, 3PH, 60HZ, 184, HP, 0632M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184HP
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
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.500 A @ 208.0 V
	5.700 A @ 460.0 V
	11.400 A @ 230.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	06F448
Base	
Status	PRD/A
Elec. spec.	06WGW730
Layout	06LYF448
Eff. date	05-02-2023
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	10-31-2005

Heater Indicator	No Heater
High Voltage Full Load Amps	5.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0632M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.18 IN
Power Factor	90
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 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

NP1260									
CAT.NO.	VHECP3663T								
SPEC.	06F448W730								
HP	5								
VOLTS	230/460								
AMP	11.4/5.7								
RPM	3490								
FRAME	184HP	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	A		**CL**	F	
NEMA-NOM-EFF	90.2	**PF**	90						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 35536
Typical performance - not guaranteed values

Winding: 06WGW730-R016	**Type:** 0632M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.54 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			11.4/5.7	**Breakdown Torque**	40.1 LB-FT
R.P.M.			3490	**Pull-up Torque**	30.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	36.9 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	64.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.08 A
NEMA Nom. Eff.	90.2	**Power Factor**	90	**Line-line Res. @ 25ºC**	1.93 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps				**Temp. Rise @ S.F. Load**	62°C
				Locked-rotor Power Factor	45
				Rotor inertia	0.143 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	76	85	90	93	93	92
Efficiency	84.5	89.4	90.8	90.6	90	89	90.2
Speed	3570	3544	3517	3489	3458	3426	3470
Line amperes	2.54	3.47	4.6	5.76	7.03	8.46	6.52

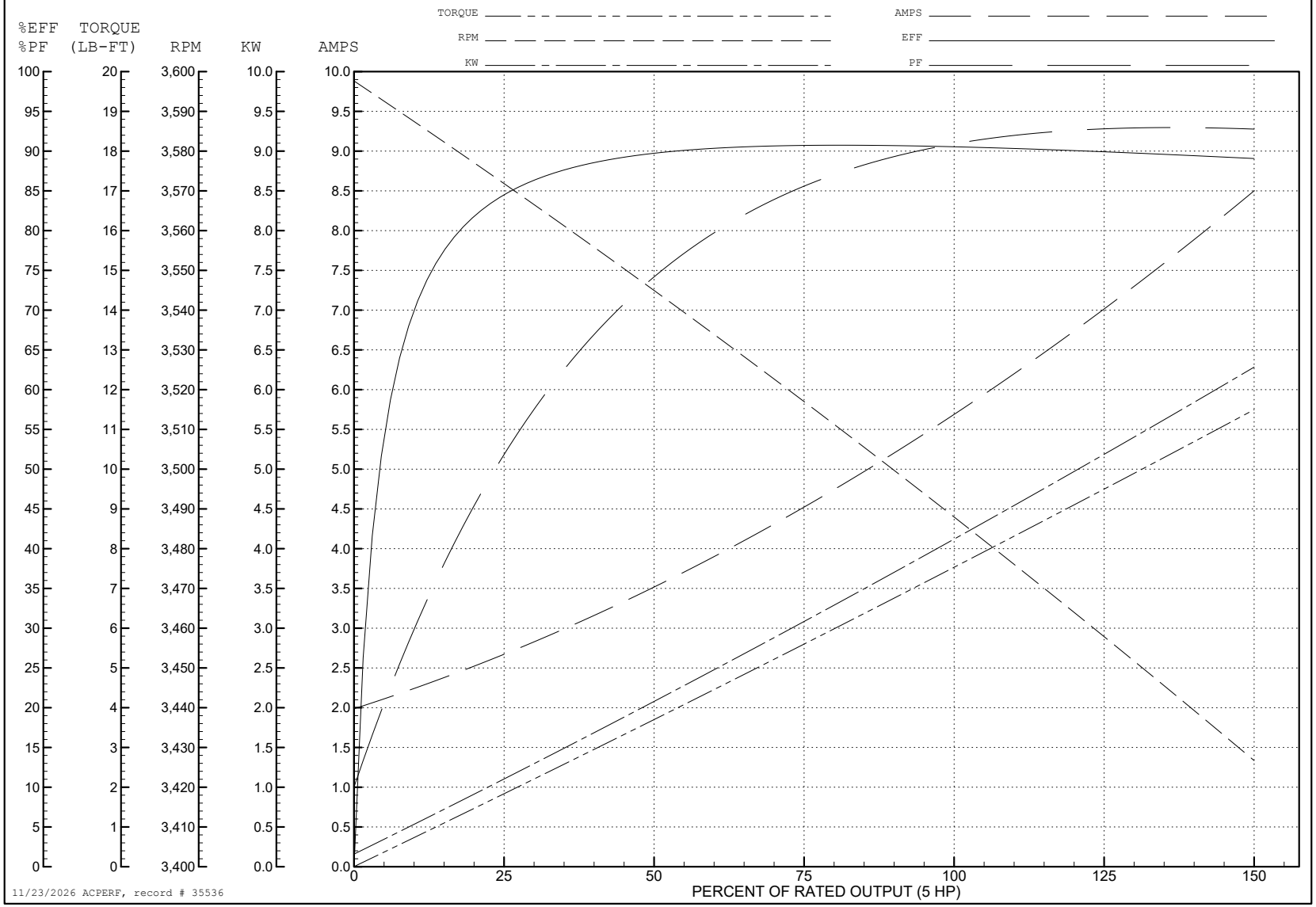
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WINDING # 06WGW730

5 HP 3 PH 60 HZ 3490 RPM 460 V 0632M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=40.1 PU=30.6 LR=36.9 LRA=64.8



AC Induction Motor Performance Data
Record # 51599
Typical performance - not guaranteed values

Winding: 06WGW730-R016	**Type:** 0632M	**Enclosure:** TEFC

Nameplate Data				**380 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.65 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			11.4/5.7	**Breakdown Torque**	26.5 LB-FT
R.P.M.			3490	**Pull-up Torque**	19.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	23.7 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	51.9 A
Service Factor (S.F.)			1.15	**No-load Current**	1.49 A
NEMA Nom. Eff.	90.2	**Power Factor**	90	**Line-line Res. @ 25ºC**	2.04 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	60°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	43.2
				Rotor inertia	0.143 LB-FT2

Load Characteristics 380 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	70	85	90	93	94	94	94
Efficiency	87	90.2	90.4	89.3	87.7	85.6	88.3
Speed	3559	3522	3482	3440	3391	3337	3411
Line amperes	2.33	3.7	5.26	6.84	8.58	10.6	7.88

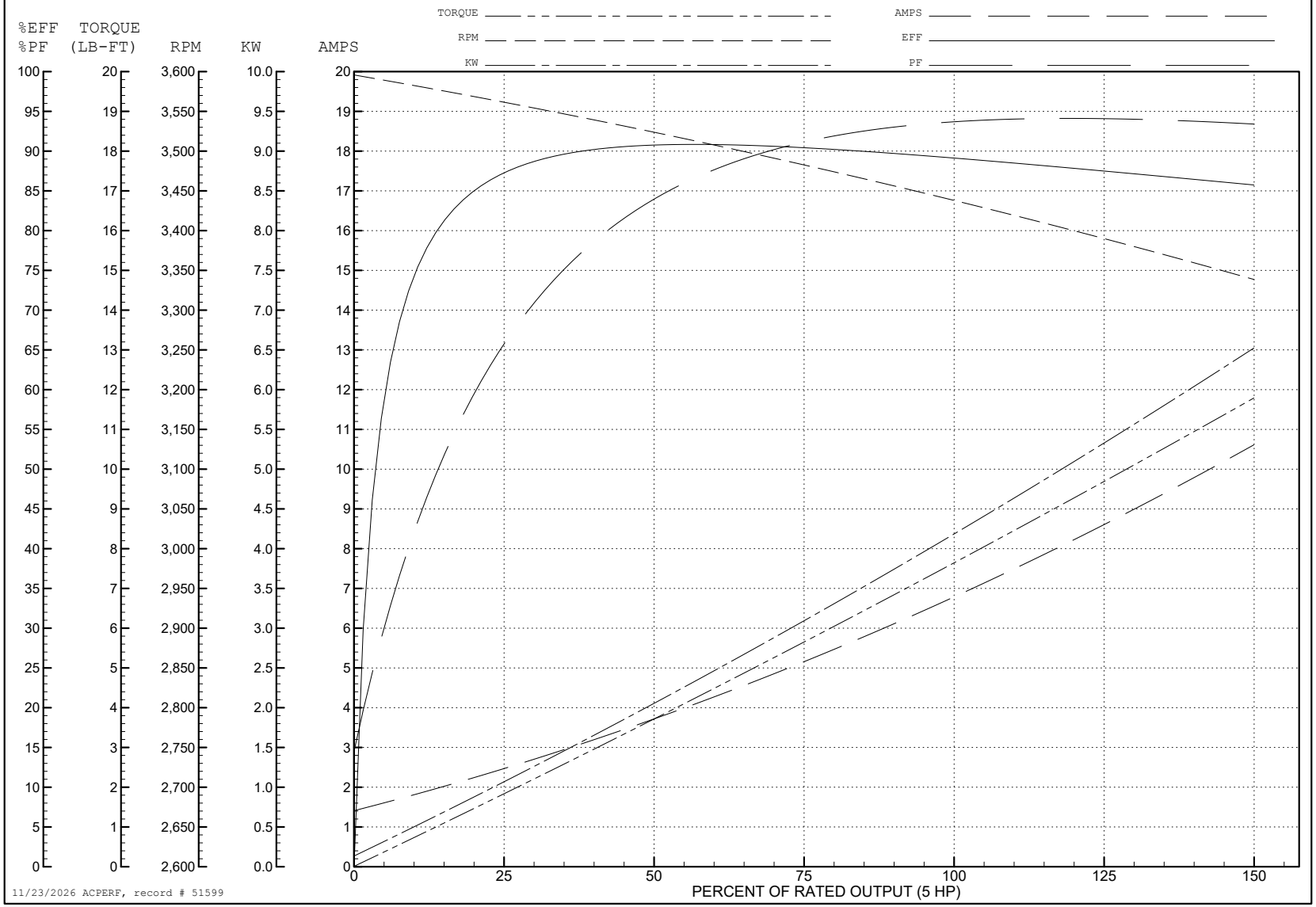
ABB Motors and Mechanical Inc.

WINDING # 06WGW730

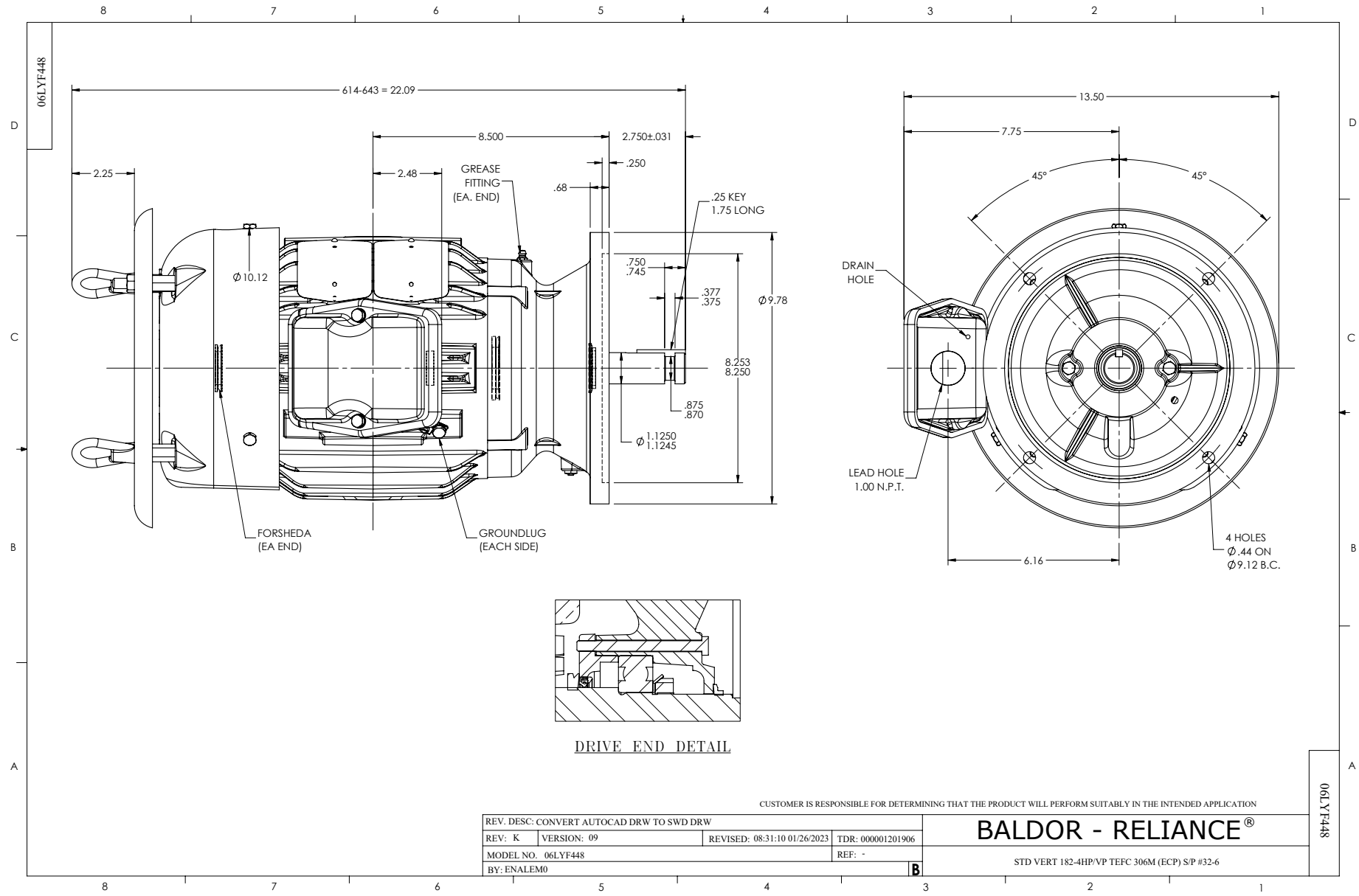
5 HP 3 PH 60 HZ 3490 RPM 380 V 0632M

Typical performance - not guaranteed values.

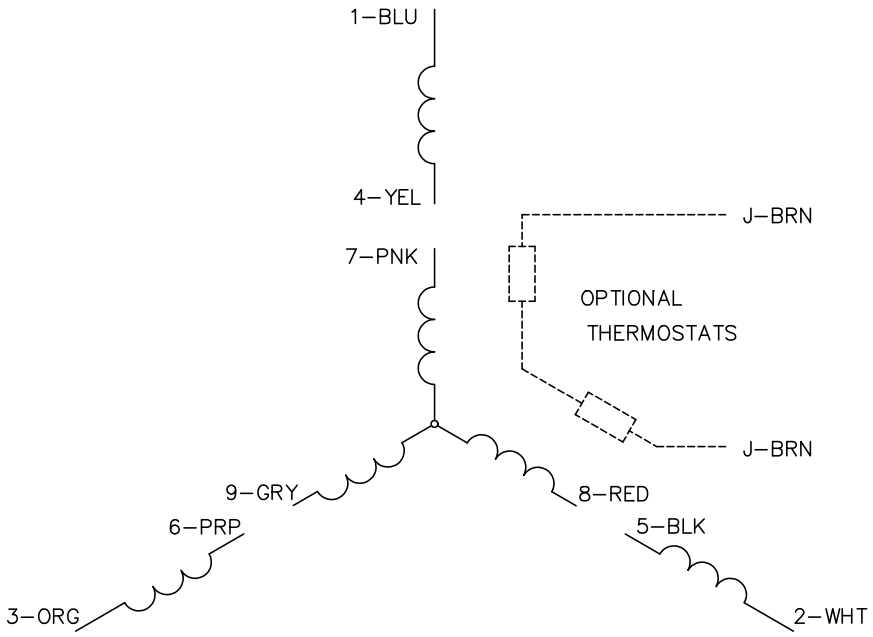
TORQUES(LB-FT): PO=26.5 PU=19.7 LR=23.7 LRA=51.9

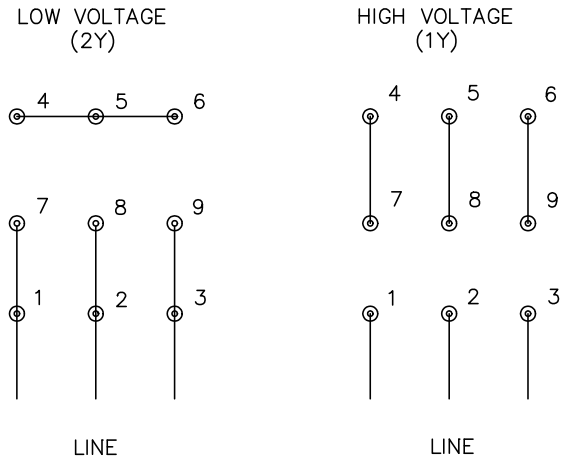


11/23/2026 ACPERF, record # 51599


06LYF448
614-643 = 22.09
8.500
2.750±.031
.250
2.25
2.48
GREASE FITTING (EA. END)
.68
.25 KEY 1.75 LONG
Ø10.12
.750 .745
.377 .375
Ø9.78
8.253 8.250
.875 .870
Ø 1.1250 1.1245
FORSHEDA (EA END)
GROUNDLUG (EACH SIDE)
13.50
7.75
45°
45°
DRAIN HOLE
LEAD HOLE 1.00 N.P.T.
6.16
4 HOLES Ø.44 ON Ø9.12 B.C.
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: K
VERSION: 09
REVISED: 08:31:10 01/26/2023
TDR: 000001201906
MODEL NO. 06LYF448
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 182-4HP/VP TEFC 306M (ECP) S/P #32-6
06LYF448

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