

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VECP3665T**

**5HP,1750RPM,3PH,60HZ,184TC,0642M,TEFC,F1**

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	06WGX182	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	06H480	Layout:	06LYH480	Poles:	04	Created Date:	04-05-2012
Base:	N	Eff. Date:	04-06-2017	Leads:	9#16		

Specs			
Catalog Number:	VECP3665T	Front Shaft Indicator:	None
Enclosure:	TEFC	Heater Indicator:	No Heater
Frame:	184TC	Insulation Class:	F
Frame Material:	Iron	Inverter Code:	Inverter Duty
Output @ Frequency:	5.000 HP @ 60 HZ	KVA Code:	J
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Voltage @ Frequency:	208.0 V @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 16 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	CLI GP A,B,C,D	Motor Lead Termination:	Flying Leads
XP Division:	Division II	Motor Type:	0642M
Agency Approvals:	CSA EEV	Mounting Arrangement:	F1
	UR	Power Factor:	79
	CSA	Product Family:	Chemical Processing (Not DC)
	CCSA US	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None

<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Extension Location:</b>	Pulley End
<b>Blower:</b>	None	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Constant Torque Speed Range:</b>	1.7	<b>Shaft Rotation:</b>	Reversible
<b>Current @ Voltage:</b>	6.500 A @ 460.0 V	<b>Shaft Slinger Indicator:</b>	Shaft Slinger
	14.000 A @ 208.0 V	<b>Speed Code:</b>	Single Speed
	13.000 A @ 230.0 V	<b>Motor Standards:</b>	NEMA
<b>Design Code:</b>	B	<b>Starting Method:</b>	Direct on line
<b>Drip Cover:</b>	Drip Cover	<b>Thermal Device - Bearing:</b>	None
<b>Duty Rating:</b>	CONT	<b>Thermal Device - Winding:</b>	None
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Feedback Device:</b>	NO FEEDBACK	<b>Winding Thermal 1:</b>	None
<b>Front Face Code:</b>	Standard	<b>Winding Thermal 2:</b>	None
		<b>XP Temp Code:</b>	T3C

<b>Nameplate NP3257E</b>										
<b>CAT.NO.</b>	VECP3665T									
<b>SPEC.</b>	06H480X182G1									
<b>HP</b>	5	TE								
<b>VOLTS</b>	208-230/460									
<b>AMP</b>	14-13/6.5									
<b>RPM</b>	1750									
<b>FRAME</b>	184TC						<b>HZ</b>	60		
<b>SER.F.</b>	1.15				<b>CODE</b>	J		<b>DES</b>	B	
<b>RATING</b>	40C AMB-CONT									
<b>SN</b>										
<b>DE</b>	6206					<b>ODE</b>	6206			
<b>NEMA-NOM-EFF</b>	89.5					<b>PF</b>	79			
<b>G.MIN.EFF</b>	87.5					<b>CC</b>	010A			
<b>T. CODE</b>	T3C					<b>T=</b>	160			
								<b>PH</b>	3	
								<b>CL</b>	F	

<b>Nameplate NP3260E</b>	
<b>SPEC.</b>	06H480X182G1
<b>D.E. BRG.</b>	30BC02XP30X
<b>O.D.E. BRG.</b>	30BC02XP30X
<b>GREASE</b>	POLYREX EM
<b>RPM MAX</b>	2700
<b>MAX. KVAR</b>	1.7
<b>BLANK</b>	
<b>INV. TYPE</b>	PWM
<b>T=</b>	160
<b>C HP FR</b>	60
<b>CT HZ FROM</b>	1.7
<b>VT HZ FROM</b>	0-
<b>C HP TO</b>	90
<b>CT HZ TO</b>	60
<b>VT HZ TO</b>	60
<b>HTR-VOLTS</b>	
<b>HTR-WATTS</b>	
<b>HTR-AMPS</b>	
<b>MAX. SPACE HEATER TEMP.</b>	

Parts List		
Part Number	Description	Quantity
SA242299	SA 06H480X182G1	1.000 EA
RA229210	RA 06H480X182G1	1.000 EA
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
06CB1000A02G	CONDUIT BOX, MACH GRAY	1.000 EA
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 EA
51XF2520A16	SCREW,HEX SER SLT HD,ZN 1/4-20X1.00LG TD	2.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	2.000 EA
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
36EP1100B73G	FREP 6206,GRSR,RLF, .25-20 FH HOLES @.50	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
36EP1300A48G	SPL PU 206 BRG. 182-4TC W/GREASER & RELI	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 EA
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
36FH1001A02G	FAN HOUSING MACH, W/GRAY EPOXY	1.000 EA
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	3.000 EA
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 EA
36FH4500A10	DRIP/FAN COVER, W/PRIMER	1.000 EA
12XF0832A06	8-32 X 3/8 TYP HX SL	4.000 EA
06CB1502G	LIPPED CONDUIT BOX LID CAST, GRAY EPOXY	1.000 EA
06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 EA
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
HA1005A22	SLINGER, OD 2.00, ID 1.14, 206 BRG, GM	1.000 EA
HW4600B36SP	V-RING SLINGER 1.188 X 1.690 X .24 VITON	1.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1025N19	WILKOFASST, 778.50, RELIANCE BLUE-GREEN	0.028 GA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3257E	SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM	1.000 EA
NP3260E	SS CP SUPER-E AUX DATA INFORMATION	1.000 EA

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85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

**AC Induction Motor Performance Data**

Record # 47003

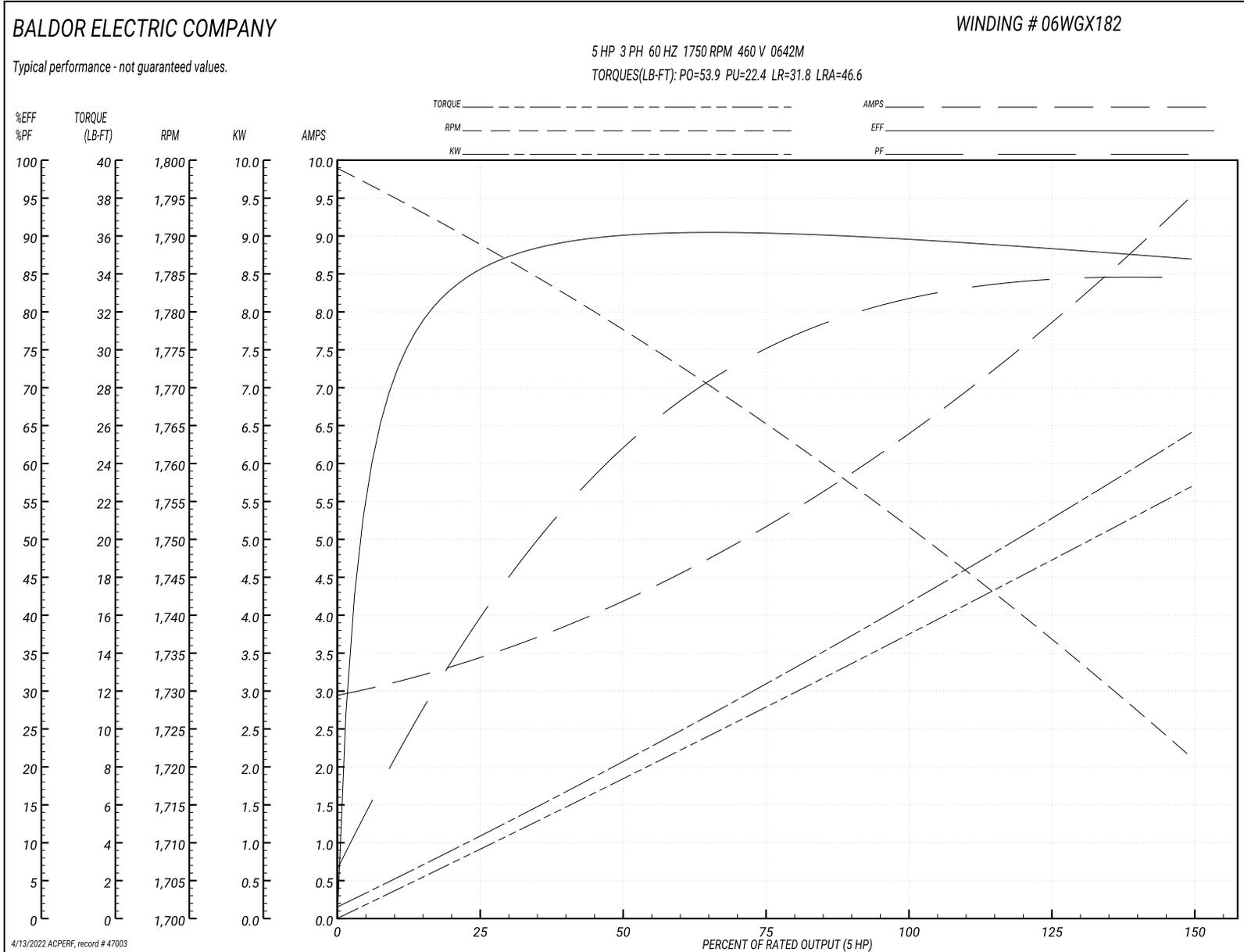
Typical performance - not guaranteed values

<b>Winding: 06WGX182-R063</b>		<b>Type: 0642M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	15 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	14-13/6.5	<b>Breakdown Torque</b>	53.9 LB-FT		
<b>R.P.M.</b>	1750	<b>Pull-up Torque</b>	22.4 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	31.8 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	J	<b>Starting Current</b>	46.6 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	3.02 A		
<b>NEMA Nom. Eff.</b>	89.5	<b>Power Factor</b>	79	<b>Line-line Res. @ 25°C</b>	2.63 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	53°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	66°C	
			<b>Locked-rotor Power Factor</b>	40.5	
			<b>Rotor inertia</b>	0.391 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 5 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	41	63	75	81	84	85	81
<b>Efficiency</b>	85.1	89.7	90.3	89.8	88.4	86.8	89.2
<b>Speed</b>	1789	1777	1765	1752	1737	1721	1743
<b>Line amperes</b>	3.35	4.14	5.21	6.45	7.91	9.47	7.48

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values



**AC Induction Motor Performance Data**

Record # 49253

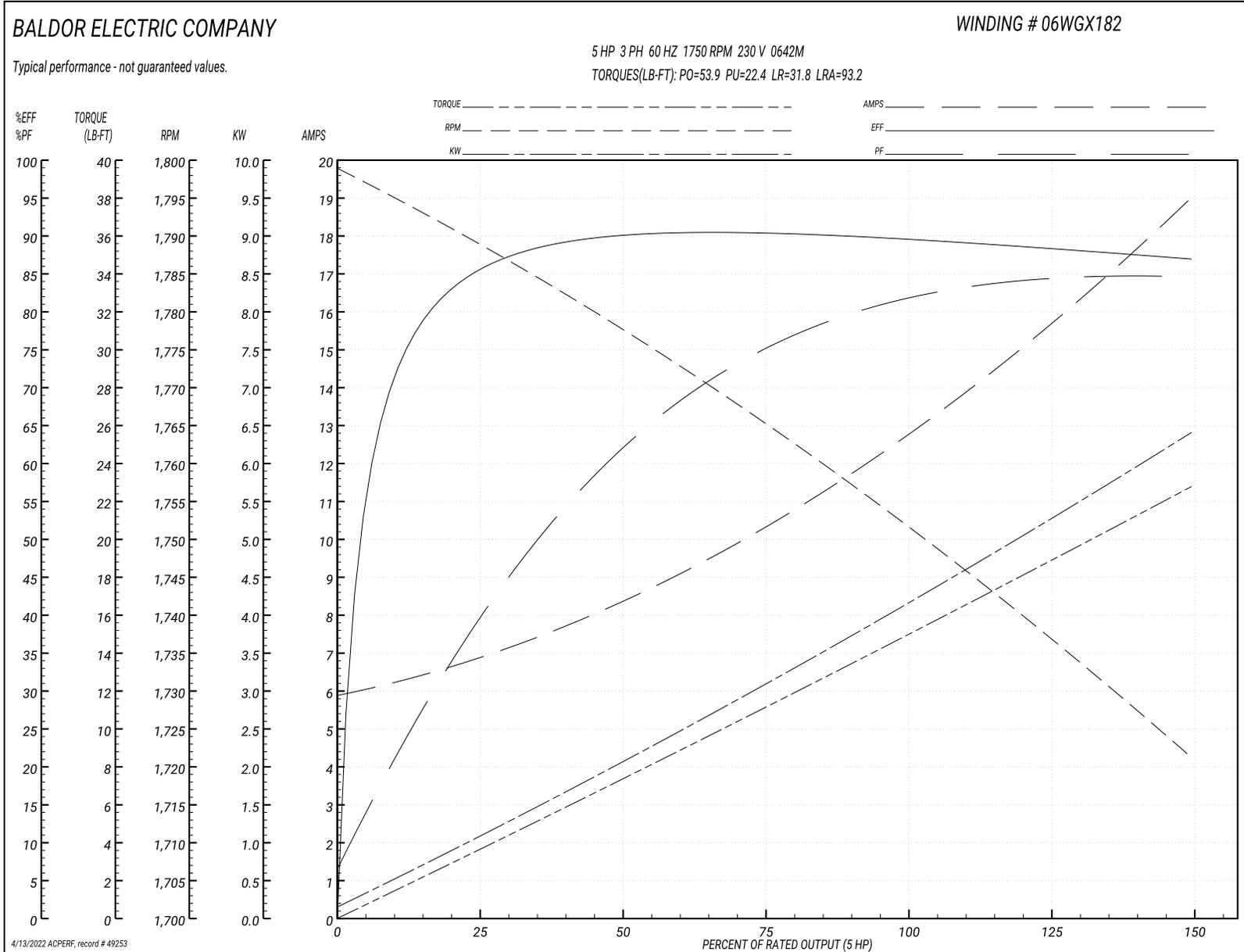
Typical performance - not guaranteed values

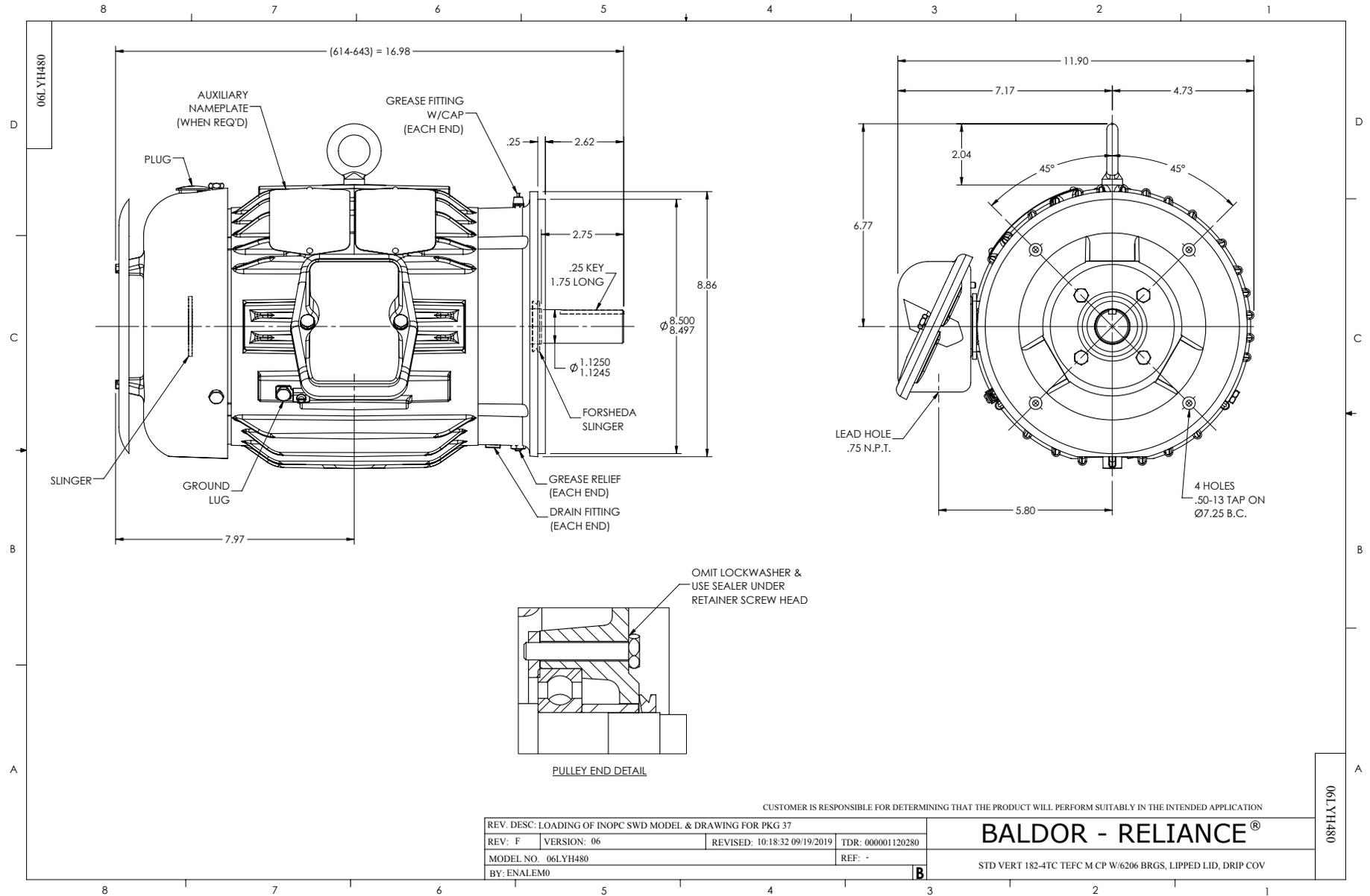
<b>Winding: 06WGX182-R063</b>		<b>Type: 0642M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Low Voltage Connection</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	15 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	14-13/6.5	<b>Breakdown Torque</b>	53.9 LB-FT		
<b>R.P.M.</b>	1750	<b>Pull-up Torque</b>	22.4 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	31.8 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	J	<b>Starting Current</b>	93.2 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	6.04 A	
<b>NEMA Nom. Eff.</b>	89.5	<b>Power Factor</b>	79	<b>Line-line Res. @ 25°C</b>	0.658 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	53°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	65°C	
			<b>Locked-rotor Power Factor</b>	40.5	
			<b>Rotor inertia</b>	0.391 LB-FT <sup>2</sup>	

**Load Characteristics 230 V, 60 Hz, 5 HP**

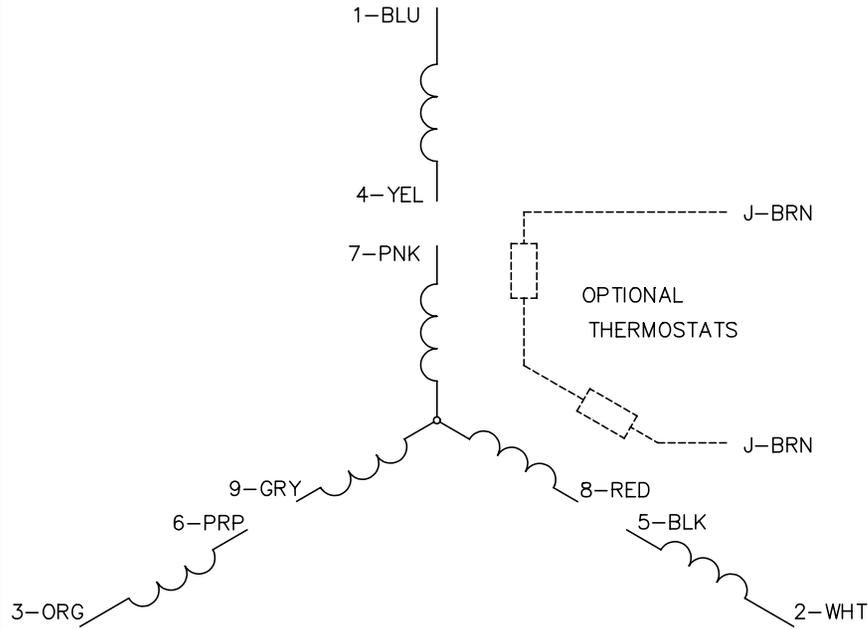
<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	41	63	75	81	84	85	81
<b>Efficiency</b>	85.2	89.8	90.4	89.8	88.4	86.9	88.8
<b>Speed</b>	1789	1777	1765	1752	1737	1721	1739
<b>Line amperes</b>	6.7	8.28	10.4	12.9	15.8	18.9	15

Performance Graph at 230V, 60Hz, 5.0HP Typical performance - Not guaranteed values

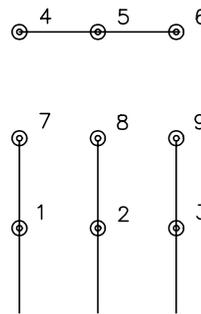




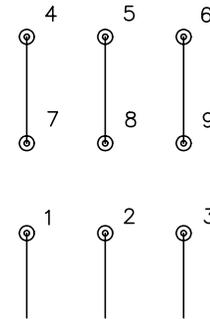
CD0005



LOW VOLTAGE  
(2Y)



HIGH VOLTAGE  
(1Y)



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
900000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005