

 	LOW VOLTAGE MOTOR (IEEE 841)		Contract: A8KM	
	DATA SHEET		Item No: 18-J-1899	
	U.S. CUSTOMARY UNITS		Revision: 0 Date: 1-Feb-23	
	APPLICABLE MOTOR SPECIFICATION A8KM-PP-000-50670-A		Unit: Rail Unloading	
		RFQ / P.O. No.: 4-624-PO		
		Sheet 5		Rev

1	APPLICABLE TO	☐ PROPOSAL	☒ PURCHASE	☐ AS BUILT
2	CLIENT:	WORLD ENERGY PARAMOUNT		
3	PLANT:	WORLD ENERGY RENEWABLES PLANT		
4	SITE:	PARAMOUNT, CA		
Service Rail Unloading MOTOR TAG NO. / NO. REQ'D 18-J-1899M / 1 DRIVEN EQUIPMENT TYPE / TAG NO. Sliding Vane Pump / 18-J-1899				
DESIGN DATA AND ACCESSORY EQUIPMENT				
6	NAMEPLATE	15	HP	1.15
7	ROTATION (WHEN FACING MOTOR OPPOSITE DRIVE END):	☐ CW ☐ CCW ☒ Fans shall be bi-directional		
8	INSULATION CLASS:	☐ B ☒ F ☐ H ☐ VPI	TEMP. RISE	CLASS B / °C over 40 °C AMBIENT
9	AREA CLASSIFICATION:	☒ CLASS I	GROUP	CD
10		☐ UNCLASSIFIED	DIV.	1
11	LOCATION:	☐ INDOOR ☒ OUTDOOR ☐ SHELTERED	UNUSUAL CONDITIONS:	☐ DUST ☐ OTHER
12		AMBIENT TEMPERATURE: MAX 104 °F / MIN. 35 °F	ALTITUDE	69 ft
13	ENCLOSURE:	☐ TOTALLY-ENCLOSED FAN-COOLED ☐ TOTALLY-ENCLOSED NONVENTILATED ☒ EXPLOSION PROOF		
14	MOUNTING METHOD:	☒ FOOT ☐ FLANGE, TYPE:		
15	MOUNTING ARRANGEMENT:	☒ HORIZONTAL ☐ VERTICAL SHAFT DOWN ☐ VERTICAL SHAFT UP		
16	BEARING TYPE:	☒ BALL ☐ ROLLER	BEARING LUBRICATION:	☒ GREASE ☐ OIL ☐ PURE OIL MIST
17	CONNECTION TO LOAD:	☒ DIRECT CONNECTED ☐ V-BELT ☒ THROUGH GEAR ☐ CLOSE COUPLED		
18	EQUIPMENT OPERATION:	☐ CONTINUOUS ☐ SPARED CONTINUOUS ☒ INTERMITTENT-CYCLES / DAY		
19	SOUND PRESSURE LEVEL REQUIREMENTS:	85 dBA @	3	FEET
20	STARTING:	☒ FULL VOLTAGE ☒ REDUCED VOLTAGE, 80 % OF VOLTAGE	Starting Voltage Dip Allowance	
21		☐ UNLOADED ☒ LOADED ☐ CAPACITORS FOR POWER FACTOR CORRECTION		
22	☐ SPACE HEATERS	V	PHASE	°F MAX. TEMP
23	☒ OVERSIZE TERMINAL BOX ☒ DRAIN PLUGS			
24	☒ SS NAMEPLATE ☐ AUXILIARY NAMEPLATE			
25	TEST	☒ ROUTINE ☐ COMPLETE ☒ VIBRATION ☒ REPORT ☒ FOOT FLATNESS		
26	REMARKS:	5.1) This data sheet applies to motors 1/2 hp through 500 hp with anti-friction bearings.		
27		5.2) IP55 degree of protection is required.		
28		5.3) Average relative humidity is 54%.		
INFORMATION BELOW TO BE COMPLETED BY VENDOR				
31	MOTOR MFR.	Baldor	MODEL	CDRX251544T
32	NAMEPLATE HP	15	FULL LOAD RPM	1765
33	MOTOR OUTLINE DRAWING NO.	09LYF368	FRAME	254TC
34	ROTOR CAGE MATERIAL OF CONSTRUCTION	Aluminum	MOTOR WINDING MATERIAL	Copper
35	BEARING MANUFACTURER	SKF	SIZE	09-0000-1465
36	VERTICAL MOTOR THRUST BEARING:	TYPE N/A	CAPACITY: UP	LBS DOWN
37				
38	LOAD	FULL	3/4	1/2
39	AMPERES	18.2	14.5	11
40	EFFICIENCY, %	92.4	92.7	92.2
41	POWER FACTOR	83	79	69
42	SPEED, RPM	1765.2	1774	1783.1
43				
44	SOUND LEVEL:	82 dBA /	EXPECTED	<85 dBA
45	GUARANTEED FAN		(NON-SPARKING)	
46	MATERIAL	Plastic		
47	INFORMATION BELOW TO BE PROVIDED BY VENDOR AFTER PURCHASE (REFER TO RFQ/PO DOCUMENTS)			
48	SAFE TIME - CURRENT CURVE	MAX. SURFACE TEMP. DURING NORMAL STARTING OR OPERATION OF:		
49	SPEED - TORQUE CURVE	☐ ROTOR	°F	☐ STATOR
50	SAFE LOCKED ROTOR TIME	HOT 24	COLD 51	
51	NOTES:			
52	5.4 Motor nameplate shall indicate service factor, area classification and T-rating. T-rating relates to both external and internal components.			
53	5.5 Provide accessory loads on submittal documents, e.g. Volts, HP, kVA, etc.			
54	5.6 Motor shall be rated for Explosion Proof, Class 1 Div 1, Gr. CD, T3C. Motors are certified by an NRTL (CSA, UL, etc) recognized by OSHA. Certificate and Nameplate marking to be included.			
55	5.7 Vendor shall provide oversized motor termination boxes and grounding provisions inside the box and outside on frame.			
56	5.8 Motor is suitable for inverter-duty rated as provision for possible future VFD.			
57				
58				

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Product Information Order

09N667Z914G1

44M 4P XPFC HOR 254TC DRILL RIG TSTAT SE

Sales Order #:	1211422513-10
Customer Name:	CORTECH ENGINEERING (OEM PUMP)

PRELIMINARY DATA

ABB Motors and Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

Sales Order Number		Customer Number		Customer Order Number		P.O. Date			
1211422513-10		30883		9208608		05/14/2024			
Sold To: CORTECH ENGINEERING (OEM PUMP) 1340 N. JEFFERSON ST ANAHEIM, CA 92807 United States				DATA PROVIDED WITH THIS TRANSMITTAL AND CERTIFICATIONS IS: ☒ PRELIMINARY, DATA FOR CUSTOMER APPROVAL: The associated documents requested on this order are submitted for approval. Please reply promptly or the order could be delayed. ☐ FINAL, APPROVED FOR CONSTRUCTION OR INSTALLATION.					
Ship To: CORTECH ENGINEERING 1340 N. Jefferson St. Anaheim, CA 92807 United States				Data Source: ISSUED BY: Benjamin Robinson 05/20/2024 Baldor-Reliance Ozark					
Application Drill Rig Duty			Quantity 1.000		Frame 254TC		Motor / Gen. D.S.:		
Elec Type 15 HP		Phs 3		Hertz 60		Voltage 460		Electrical Design Motor / Gen. C.D.:	
RPM 1800		Enclosure TEFC		Time CONT		Temp 40		Leads Location Conduit Box:	
Rotation Bi-directional		DC Field Excitation		Pwr Cd		Winding Type		Mounting Base F-1	
Insulation F		Mtg F-1		Drive		Bearing Ball / Ball		S F 1.15	
Bs / RI		Model Number		B L O W E R		Motor Part #		Line Voltage PH/HZ/V	
Type		Torque		Enclosure		Insulation		Phs Hertz	
Volts		FL Amps							

Additional Specifications:

BASIC CONFIGURATION

Partial Motor Design No
Frame Band 309
Customer Application Drill Rig Duty
Division Div. 1
Hazardous Location Group Code D
Hazardous Location Group Code C
Temp Code T3C

ELECTRICAL

Ambient Minimum -25C
Winding Type Random
Starting Method Standard Start
Standard NEMA Inertia 75

MOUNTING

Mounting Flange - DE C-Face
Mounting Position F-1
Frame Mounting Foot (Dual Mounting Hole)
Foot Planarity Standard (0.005 IN/FT)

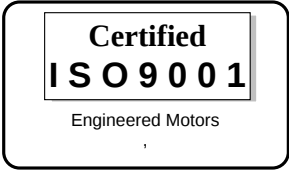


ABB Motors and
Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

Sales Order Number	Customer Number	Customer Order Number	P.O. Date
1211422513-10	30883	9208608	05/14/2024
Drive MethodDirect Mounting OrientationHorizontal Shaft - Special MaterialNo Shaft ExtensionT BEARINGS Bearing Enhancement DEOpen Bearing Enhancement ODEOpen Locked BearingDrive End Drive End SealSlinger Opposite Drive End SealSlinger Lube TypeGrease Grease TypePOLYREX Grease Fittings RqdYes Grease Fitting TypeAlemite 1610 or equal Grease Relief Fittings RqdYes Grease Fitting Extensions Rqd.No Relief Fitting TypeAlemite MECHANICAL BalanceUltra-Standard (0.08 in/sec) Rotation Facing ODEBi-directional Fan MaterialStandard Ingress ProtectionIP55 Paint SystemStandard (C2) Paint Color SpecificationStandard Epoxy Paint ColorDark Charcoal Gray Baldor-Reliance Paint Spec No004824-007CCV / MG1025G29 Frame Grounding RequiredYes Ground Pad TypeDrilled & Tapped Hole in Frame Ground Pad LocationFrame - same side as main CB Auto Drain TypeUL XP Drain – Stainless Steel MONITORING DEVICES Winding ThermostatYes Winding Thermostat TypeHigh Limit Thermostat High Limit ContactsNormally Closed Winding Thermostat Qty3 Total - One per Phase Wdg Thermostat To Main CboxYes CONDUIT BOX Main Conduit BoxRequired Main Conduit Box LocationStandard (side) Main Conduit Box MaterialCast Iron Main Conduit Box SizeOne Size Larger than Oversize Terminal PanelNo Lead Entry LocationToward Feet - Down LugsYes			

Certified

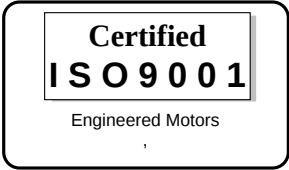
ISO 9001

Engineered Motors

ABB Motors and Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

Sales Order Number	Customer Number	Customer Order Number	P.O. Date
1211422513-10	30883	9208608	05/14/2024

Ground Servit Post	No
Sealed Leads	Yes
NAMEPLATE / LABELS	
Nameplate Language	English
Nameplate Material	Standard
Unit Nameplate Markings	Yes
Unit Nameplate Markings 1	18-J-1899M
Additional Haz Loc Marks	Yes
Additional Haz Loc Text	CL I, ZONE 1, GR IIA IIB, T3
Additional heater Markings	No
Special Nameplate Rqd	Yes
Namplate Blankline Marks Rqd	Yes
Nameplate Blankline Markings	55C AMB @ 1.0 SF 60C RISE IP55
Label UL	Yes
Label CSA	Yes
Efficiency Marking	DOE CC Mark Required
PACKAGING	
Packaging Type	Standard Packing
TESTING	
Routine Report w/Vibration	Yes
IEEE112 Routine Test	Non-witnessed
No-Load Vibration/Mech Run	Non-witnessed
DOCUMENTATION	
Document Unit of Measure	US
Certified Dimension Sheet	Yes
Performance Data/Curves	Yes
Speed Torque Curve	Yes
Thermal Limit	Yes
Standard Connection Diagram	Yes
Motor Instruction Manual	Yes
Renewal Parts List	Yes
Nameplate Data	Yes
Customer Supplied Data	Yes
Documentation Format	PDF
COMMERCIAL COMMENTS	
Estimated Lead Time	Estimated Lead Time is based on plant loading at the time of quotation and is intended to be used as a guide for our customers. This estimation includes the Engineering and Manufacturing time only. It DOES NOT include shipping time. Please contact your ABB Motors and Mechanical Inc. representative if specific delivery requirements are needed.



Notes:	Class null Division null
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Nameplate NP0977XPSLEV									
NO.					CC	010A			
SER.					TEMP CODE		T3C		
SPEC.	09N667Z914G1								
CAT.NO.									
HP	15								
VOLTS	460								
AMPS	18.1								
RPM	1765				MOTOR WEIGHT		373		
HERTZ	60		PH	3	CL	F	DE BRG	6309	
SER.F.	1.15		DES	A	CODE	H	ODE BRG	6208	
FRAME	254TC		GREASE		POLYREX EM				
RATING	40C AMB-CONT								
	IP55		NEMA-NOM-EFF		92.4		PF		83
	55C AMB @ 1.0 SF,60C RISE								

AC Induction Motor Performance Data

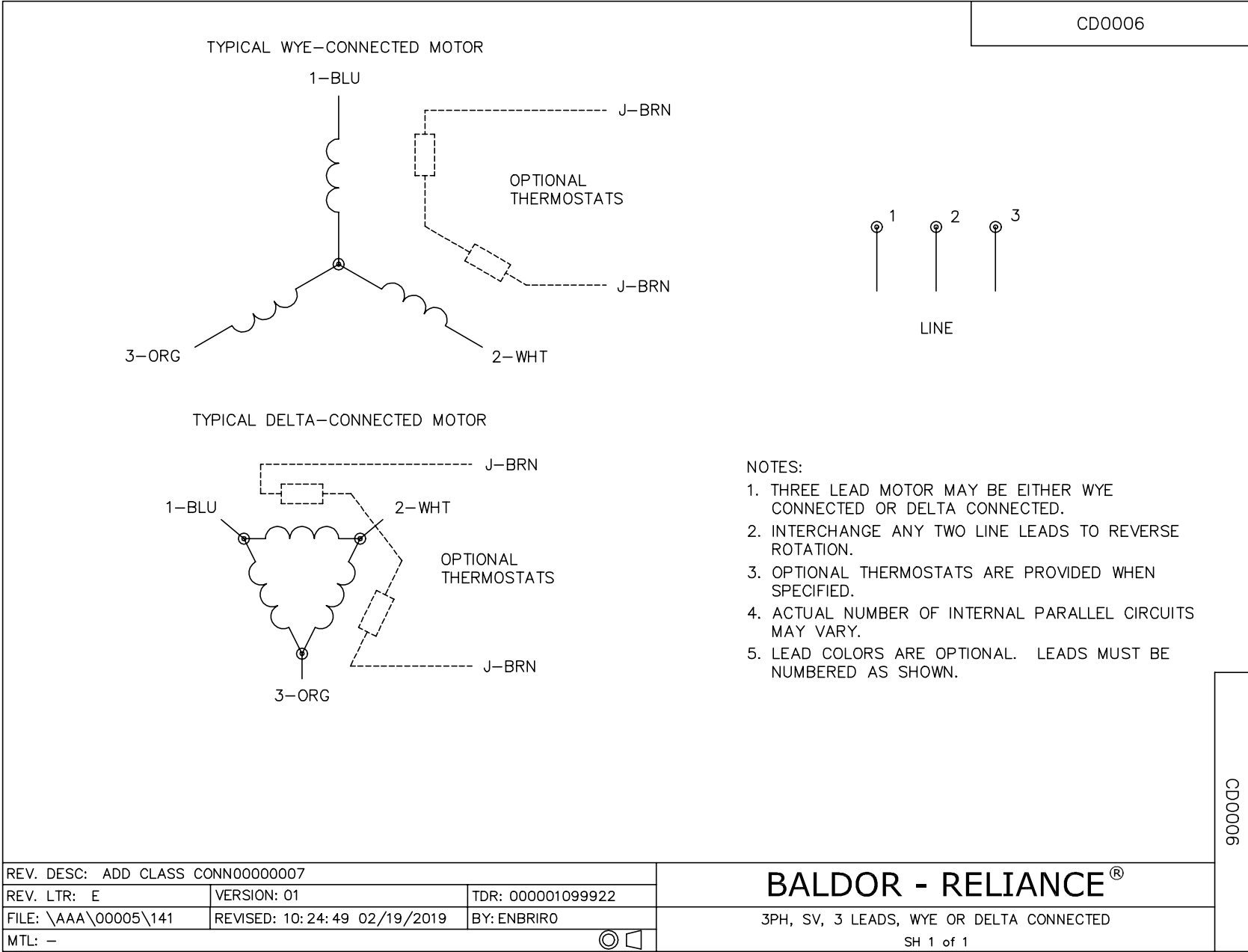
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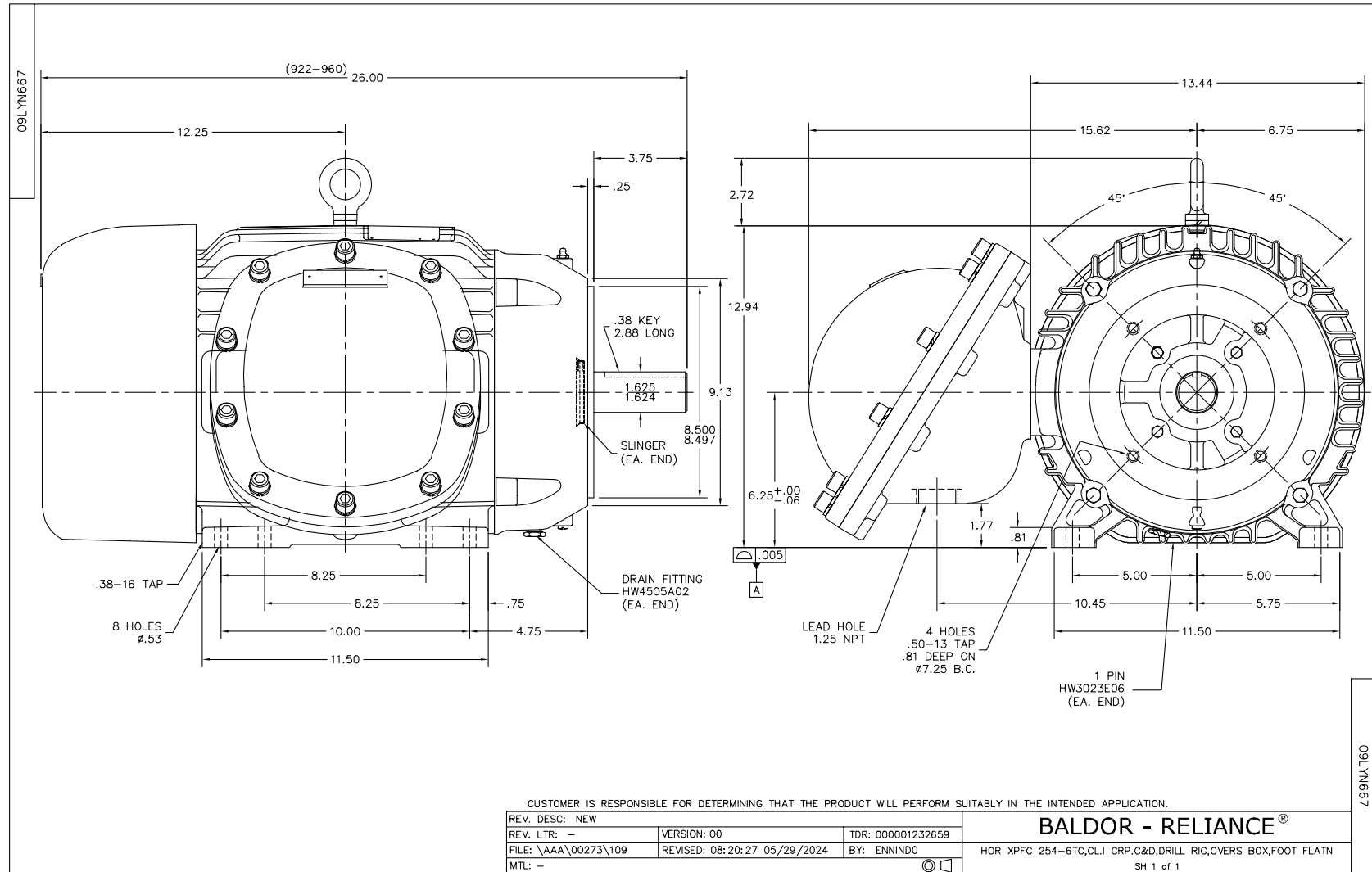
Typical performance - not guaranteed values

Winding: 09WGZ914-R031				Type: 0944M		Enclosure: XPFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		15		Full Load Torque		44.5 LB-FT					
Volts		460		Start Configuration		direct on line					
Full Load Amps		18.1		Breakdown Torque		153 LB-FT					
R.P.M.		1765		Pull-up Torque		69.5 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		86.5 LB-FT			
NEMA Design Code		A		KVA Code		H		Starting Current		127 A	
Service Factor (S.F.)		1.15		No-load Current		7.56 A					
NEMA Nom. Eff.		92.4		Power Factor		83		Line-line Res. @ 25°C		0.59555 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C					
S.F. Amps				Temp. Rise @ S.F. Load		67°C					
				Locked-rotor Power Factor		33.1					
				Rotor inertia		1.92 LB-FT2					

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	69	79	83	85	87	84
Efficiency	88.2	92.2	92.7	92.4	91.5	90.4	91.9
Speed	1791.3	1783.1	1774	1765.2	1754.6	1743.1	1759
Line amperes	8.62	11	14.5	18.2	22.6	26.9	20.8





Parts List		
Part Number	Description	Quantity
09WGZ914-C001	3,4,0944M,N,CD0006,CS0592C,09SL4487,09RD	1.000 EA
09WGZ914-R031	3,4,0944M,N,CD0006,XPFC,A,60,15 HP,460,G	1.000 EA
09N667	XPFC RG 254-256TC XP M N F1	1.000 EA
09EP1700A65LP5	FR ENDPLATE, MACH, XPFC W/ALUM SLINGER	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 LB
BG6208A01	6208 OPEN,C3,SLUSH	1.000 EA
BG6309A01	6309 OPEN,C3,SLUSH	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 EA
09FN3001D01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.070 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
MG5024	VARNISH PEDIGREE® 8183 VT POLYESTER	0.300 GA
TP5050A05	T'STAT, 7AM034A5 (NC) (TI) 135C	1.000 EA
09SH5137A12	SH,XPFC,250,TC,MR3008,6309,6208	1.000 EA
HW2501F42	KEY, 5/16 SQ X 5.000	1.000 EA
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
NP0977XPSLEV	SS XP UL CSA-EEV CC CL-I GP-C&D	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA
WD1000B07	T&B C71, RING TERM 10-12 AWG, .25" STUD	3.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 EA