ABB BALDOR RELIANCE

Customer information packet

CEM7044T-I-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3644M, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	36P268
Base	
Status	PRD/A
Elec. spec.	36WGT032
Layout	36LYP268
Eff. date	04-16-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	12-05-2013

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3644M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.84 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSL											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	36P268T032G1										
CAT.NO.	CEM7044T-I-5										
HP	5										
VOLTS	575										
AMPS	5.2										
RPM	1750					**MOTOR WEIGHT**	136				
HERTZ	60	**PH**	3	**CL**	F	**DE BRG**	6206				
SER.F.	1.15	**DES**	B	**CODE**	K	**ODE BRG**	6205				
FRAME	184TC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT 55C AMB @ 1.0 SF										
				NEMA-NOM-EFF		89.5	**PF**	80			
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data
Record # 35738
Typical performance - not guaranteed values

Winding: 36WGT032-R013	**Type:** 3644M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15.1 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			5.2	**Breakdown Torque**	58.94 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.11 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	38.11 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	43.13 A
Service Factor (S.F.)			1.15	**No-load Current**	2.62 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	3.59 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps				**Temp. Rise @ S.F. Load**	66°C
				Locked-rotor Power Factor	51.7
				Rotor inertia	0.409 LB-FT2

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	61	74	80	84	86	82
Efficiency	84.8	89.8	90.3	90.2	88.9	87.6	90.2
Speed	1790	1779	1767	1755	1741	1724	1746
Line amperes	2.87	3.46	4.27	5.22	6.32	7.72	5.8

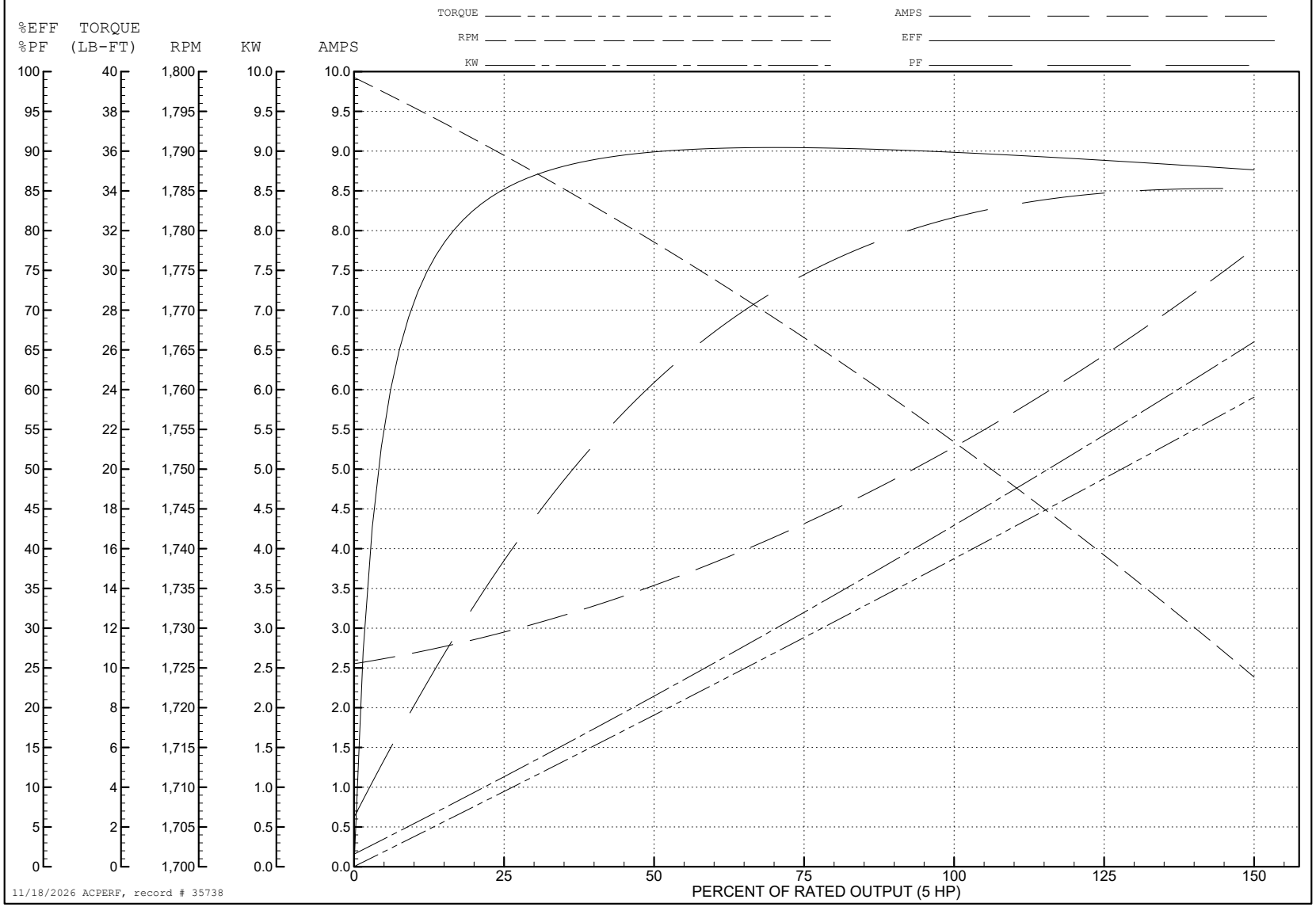
ABB Motors and Mechanical Inc.

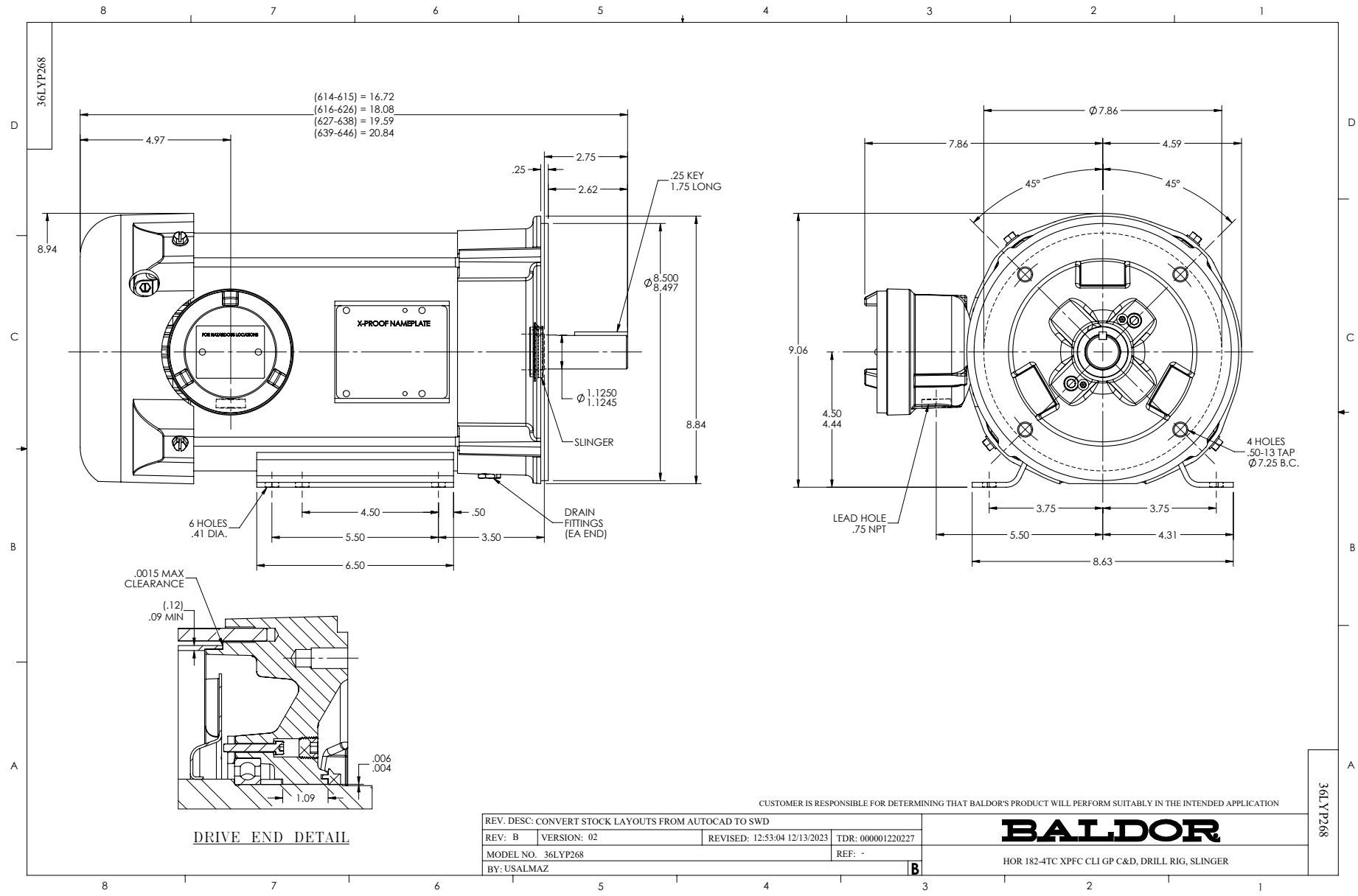
WINDING # 36WGT032

5 HP 3 PH 60 HZ 1750 RPM 575 V 3644M

Typical performance - not guaranteed values.

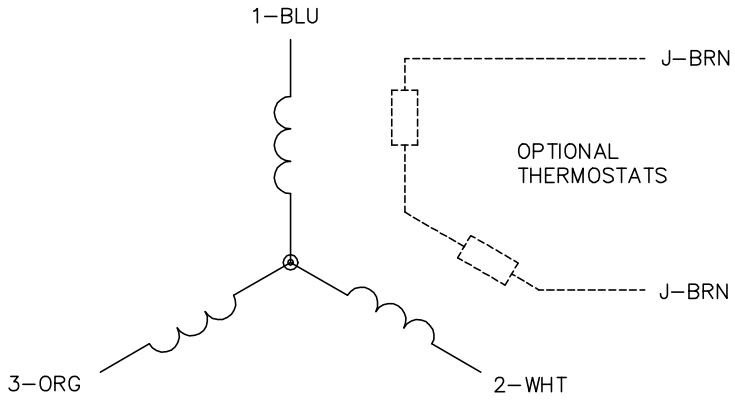
TORQUES(LB-FT): PO=58.94 PU=25.11 LR=38.11 LRA=43.13

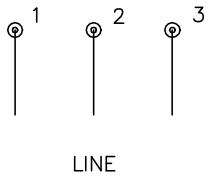



36LYP268
(614-615) = 16.72
(616-626) = 18.08
(627-638) = 19.59
(639-646) = 20.84
4.97
2.75
.25
2.62
.25 KEY
1.75 LONG
8.94
Ø 8.500
8.497
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 1.1250
1.1245
SLINGER
8.84
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
DRAIN
FITTINGS
(EA END)
Ø 7.86
7.86
4.59
45°
45°
9.06
4.50
4.44
4 HOLES
.50-13 TAP
Ø 7.25 B.C.
LEAD HOLE
.75 NPT
3.75
3.75
5.50
4.31
8.63
.0015 MAX
CLEARANCE
(.12)
.09 MIN
.006
.004
1.09
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: B
VERSION: 02
REVISED: 12:53:04 12/13/2023
TDR: 000001220227
MODEL NO. 36LYP268
REF: -
BY: USALMAZ
B
BALDOR
HOR 182-4TC XPFC CLI GP C&D, DRILL RIG, SLINGER
36LYP268

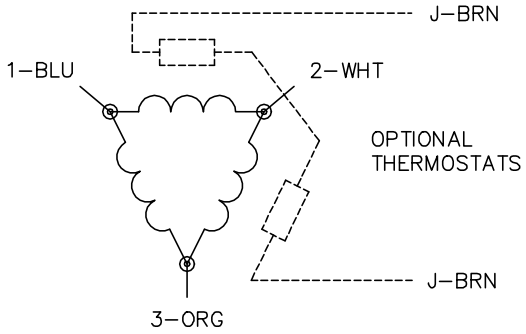
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1