ABB BALDOR RELIANCE

Customer information packet

IDXM7542T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, XPFC, F1
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	UL
	UR
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
Constant Torque Speed Range	6
Current @ Voltage	4.100 A @ 460.0 V
	8.200 A @ 230.0 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

Part Detail

Revision	Q
Type	AC
Mech. spec.	06J010
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYJ010
Eff. date	06-18-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	12-21-2011

Haz Area Temp Code	T2B
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.24 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	1755 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

NP0890XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T2B						
SPEC.	06J010X181G2			**INV.TYPE**	PWM						
CAT.NO.	IDXM7542T			**C HP FR**	60	**C HP TO**	90				
HP	3			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	8.2/4.1			**MAG CUR**	4.2/2.1						
RPM	1755			**MX RPM**	2700						
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	89.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.5	**WK2**	0.3				
FRAME	182TC	**RATING**	40C AMB-CONT								
	75C RISE										

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AC Induction Motor Performance Data

Record # 36483
Typical performance - not guaranteed values

Winding: 06WGX181	**Type:** 0632M	**Enclosure:** TEBC

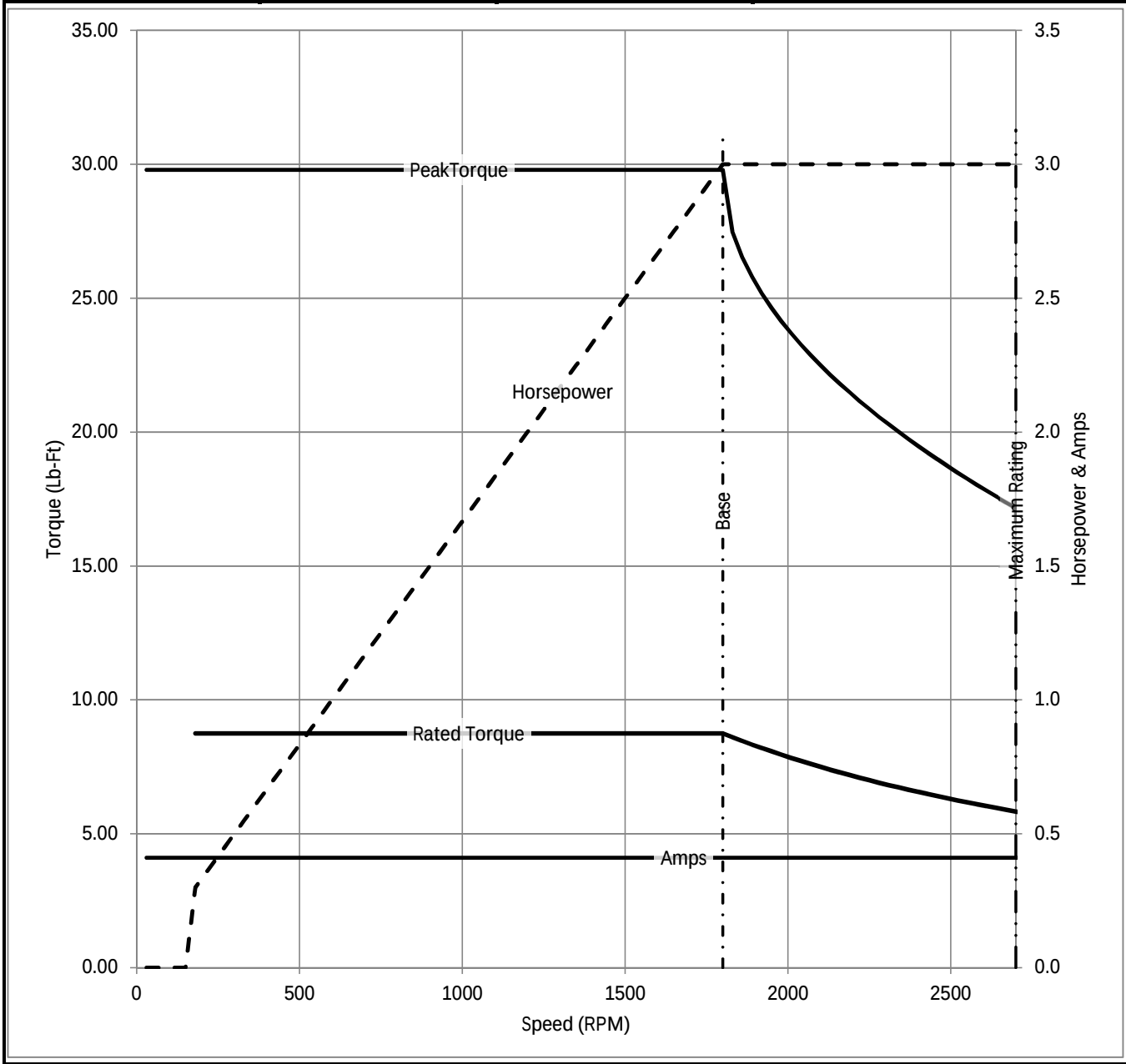
Nameplate Data				General Characteristics at 460 V, 60 Hz: High Volt Connection	
Rated Output (HP)	3			Full Load Torque	9.06 LB-FT
Volts	230/460			Start Configuration	DOL
Full Load Amps	8.2/4.1			Break Down Torque	33.1 LB-FT
R.P.M.	1755			Pull-Up Torque	18.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	20.4 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	29.8 Amps
Service Factor	1			No-load Current	2.14 Amps
NEMA Nom. Eff.	89.5	P.F.	77	Line-line Res. @ 25°C.	3.94 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	35°C
S.F. Amps				Temp. Rise @ S.F. Load	

Load Characteristics at 460 Volts, 60 Hz, 3 HP

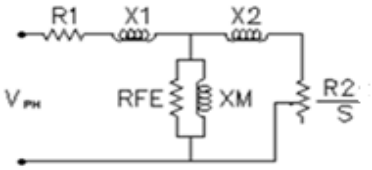
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	70	77	81	83	
Efficiency	83.2	88.3	89.8	89.7	89.1	87.7	
Speed	1790	1779	1769	1757	1744	1730	
Line Amperes	2.34	2.79	3.39	4.1	4.91	5.86	

Baldor Electric Company Fort Smith, Arkansas BALDOR • RELIANCE

Catalog	IDXM7542T	NP VOLTS	230/460	ENCLOSURE	XPFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	182TC	NP AMPS	8.2/4.1	Base Volts	460	R1	1.930	X1	5.490
HP	3 HP	DUTY	Cont	Base AMPS	4.1	R2	1.370	X2	4.581
BASE SPEED	1800	MAX SAFE RPM	2700	Slip Hz	1.43			XM	119.333
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (lb-ft^2)	0.298				



Remarks: Calculated Data



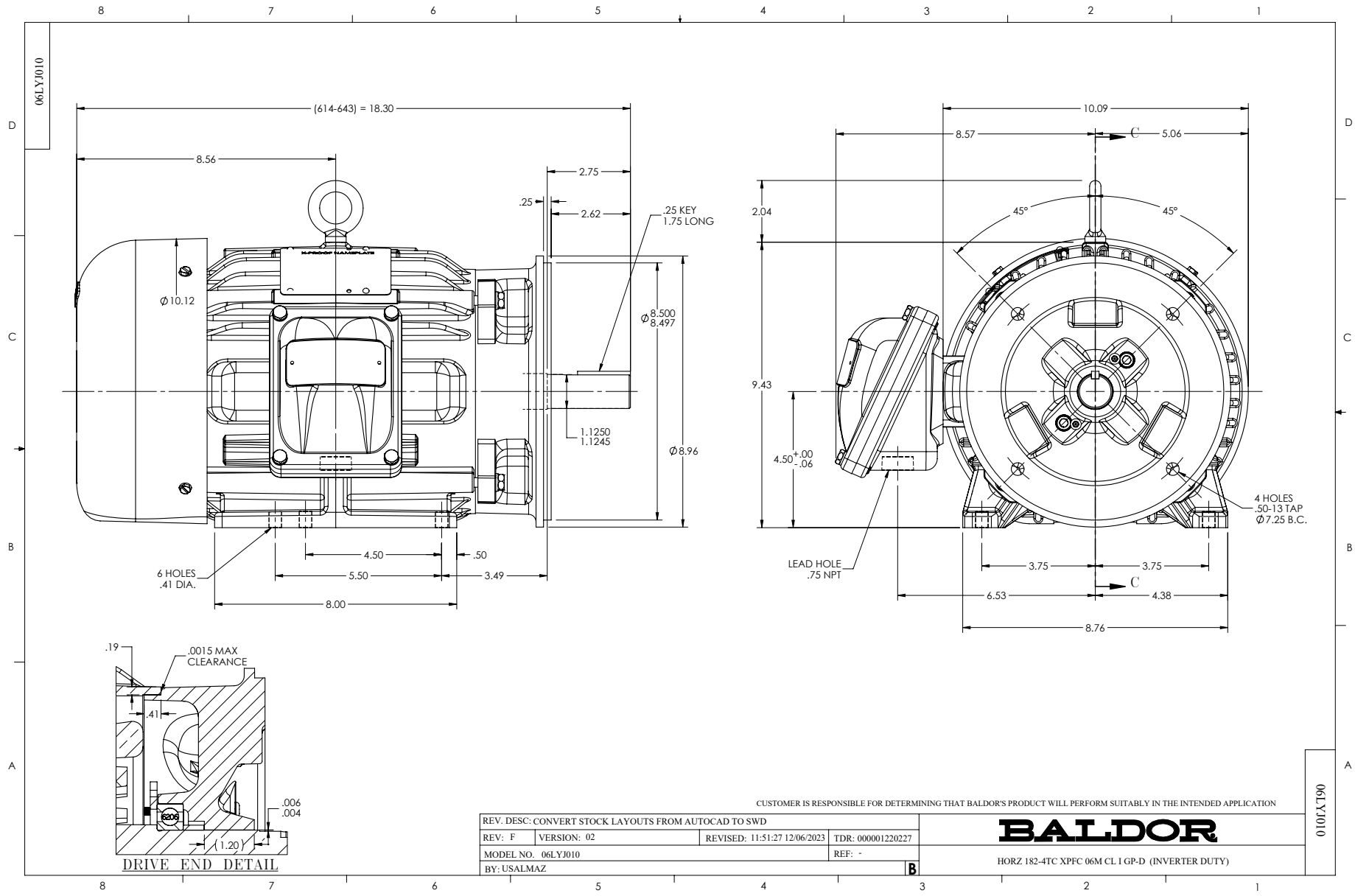
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DR BY ENR
CK BY
APP BY ENR
DATE 2/27/2013

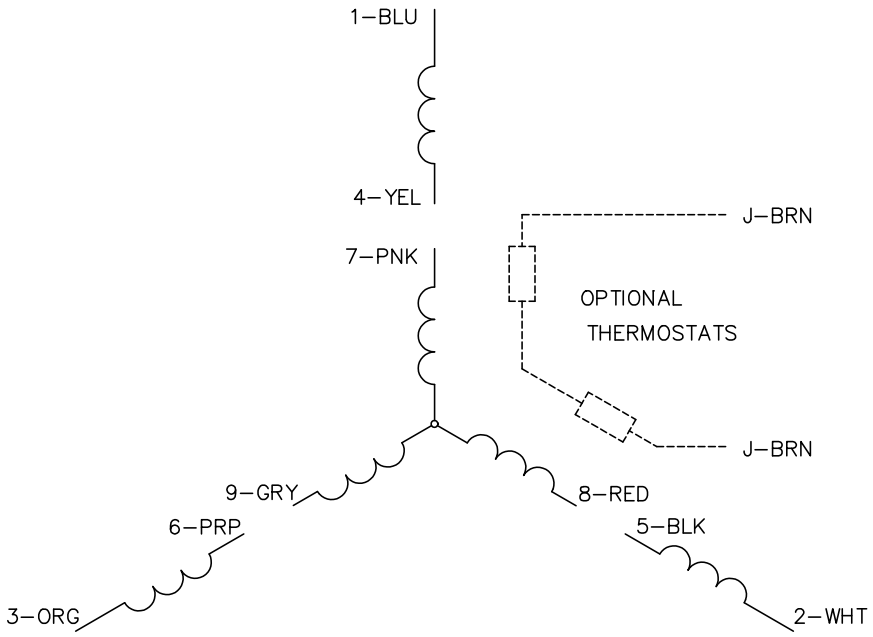
A-C MOTOR
PERFORMANCE CURVES

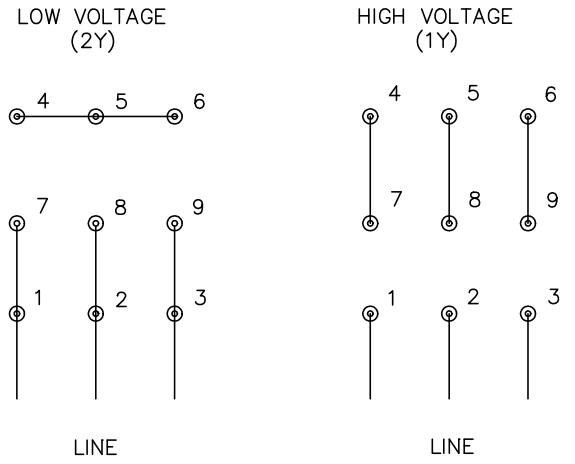
06J010X181G2

ISSUE DATE 2/27/2013


06LYJ010
(614-643) = 18.30
8.56
2.75
.25
2.62
.25 KEY
1.75 LONG
Ø10.12
Ø8.500
8.497
1.1250
1.1245
Ø8.96
4.50
.50
5.50
3.49
8.00
6 HOLES
.41 DIA.
10.09
8.57
C
5.06
2.04
45°
45°
9.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75 NPT
3.75
3.75
C
6.53
4.38
8.76
.19
.0015 MAX
CLEARANCE
.41
.006
.004
1.20
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: F
VERSION: 02
REVISED: 11:51:27 12/06/2023
TDR: 000001220227
MODEL NO. 06LYJ010
REF: -
BY: USALMAZ
B
BALDOR
HORZ 182-4TC XPFC 06M CL I GP-D (INVERTER DUTY)
06LYJ010

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