

ABB BALDOR RELIANCE III

Customer information packet

IDVSM3665T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0641M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR 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	13.200 A @ 230.0 V 6.600 A @ 460.0 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	Encoder/Feedback Device
Front Shaft Indicator	No Key Or Flat
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a

Part Detail

Revision	R
Type	AC
Mech. spec.	06H926
Base	
Status	PRD/A
Elec. spec.	06WGX182
Layout	06LYH926
Eff. date	06-18-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-05-2012

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.23 IN
Power Factor	79
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	1.00
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	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

NP4615L									
CAT NO	IDVSM3665T								
SPEC.	06H926X182G1							ENCL	TEFC
FRAME	184TC		HP	5 TE					
VOLTS	230/460								
MAG CUR	6.4/3.2			FLA	13.2/6.6				
RPM	1750		RPM MAX	4000					
HZ	60	PH	3	CLASS	F				
SER.F.	1.00		SL HZ	1.7					
NEMA-NOM-EFF	89.5		WK2	0.39					
RATING	40C AMB-CONT								
DE BRG	6206		ODE BRG	6206					
CC	010A	SN							
	1.5:1 CHP PWM								
	1000:1 CT/VT								

Parts List

Part number	Description	Quantity
SA251096	SA 06H926X182G1	1.000 ea
RA237940	RA 06H926X182G1	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1000A03	CONDUIT BOX, MACH	1.000 ea
06GS1000	GASKET, CONDUIT BOX	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	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
36EP1905A14	FREP FOR SPL CI FANCOVER, 206 BRG	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36PE1300A01	PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A26	1/4-20X 1 5/8 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 ea
06FH1005A16	FAN COVER, MACH FOR 36EP1905A14	1.000 ea
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA1100A06	SCREEN, RODENT	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
HA6881	BEI HS35 THRU SHAFT ENCODER PROTECTIVE C	1.000 ea
10XN3816A10	3/8-16 X 5/8 HEX HD CAP SCREW	3.000 ea
06CB1500A01	CONDUIT BOX LID, MACH	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	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
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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea

35AD2003	BAFFLE, PLATE	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.028 ga
LC0145B01	CONNECTION LABEL	1.000 ea
NP4615L	SS INV UL CSA PREM CC (W/OUT DESIGN FIEL	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

REL S.O.	IDVSM3665T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	184TC	AMPS	6.6	MAX SAFE RPM	4000	(AT BASE RATING, 25°C)			
HP	5	DUTY	CONT	In (AMPS)	3.2	R1	1.3080	X1	3.6930
BASE SPEED	1750	S.F.	1.0	P.F. @NL/FL	6/79	R2	1.0000	X2	3.2200
PHASE/HZ	3/60	AMB°C/INSUL	40/F	WK ² (lb-ft ²)	0.382			XM	81.0550

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1749	5.0	15.00	460	60	6.63
Max Speed	2622	5.0	10.10	460	90	6.00
Min Speed	0	0.0	15.15	36.44	1.70	6.63

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.00	460	60	3.20
1/4	1788	1.3	3.75	460	60	3.48
1/2	1775	2.5	7.52	460	60	4.26
3/4	1763	3.8	11.20	460	60	5.34
Full Load	1749	5.0	15.00	460	60	6.63
O/L	1679	11.0	34.50	460	60	14.50

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty



DR BY Micheal Williamson
 CK BY Micheal Williamson
 APP BY Micheal Williamson
 DATE 8/27/2012

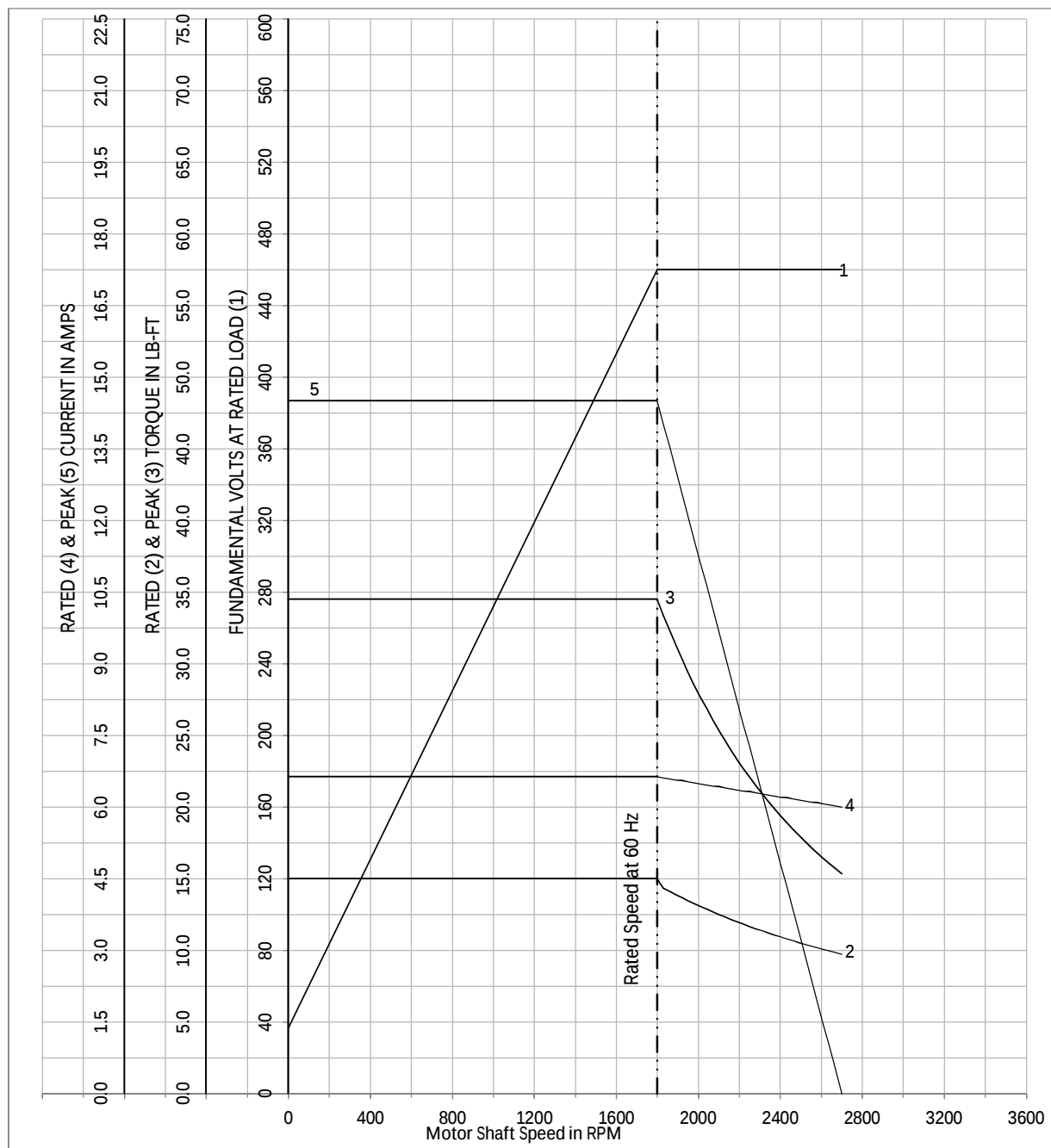
A-C MOTOR
PERFORMANCE CURVES

06G938X182Z1

ISSUE DATE 8/27/2012

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Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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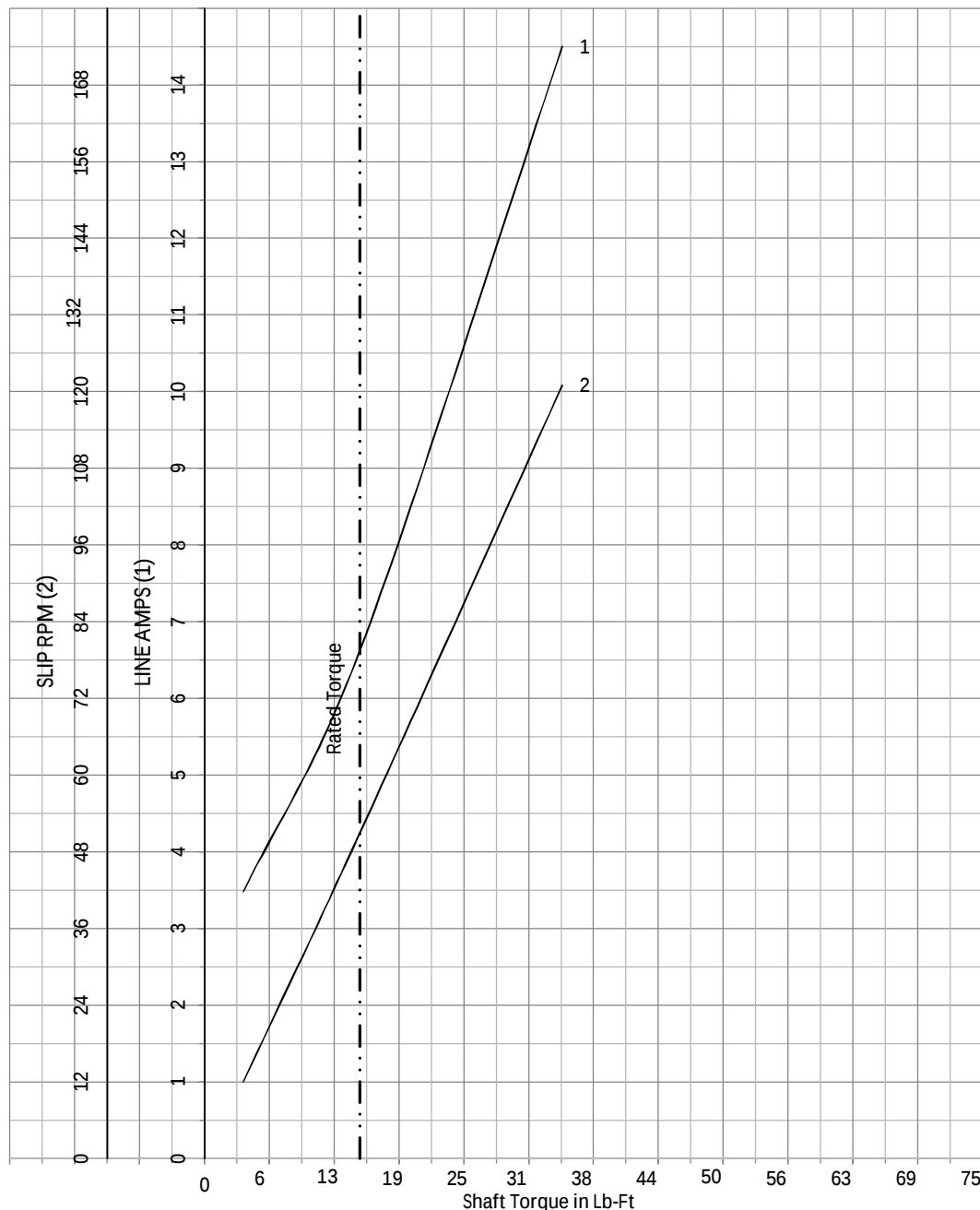
A-C MOTOR PERFORMANCE
CURVES

06G938X182Z1

SH 1 of 2
ISSUE DATE 8/27/2012

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Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

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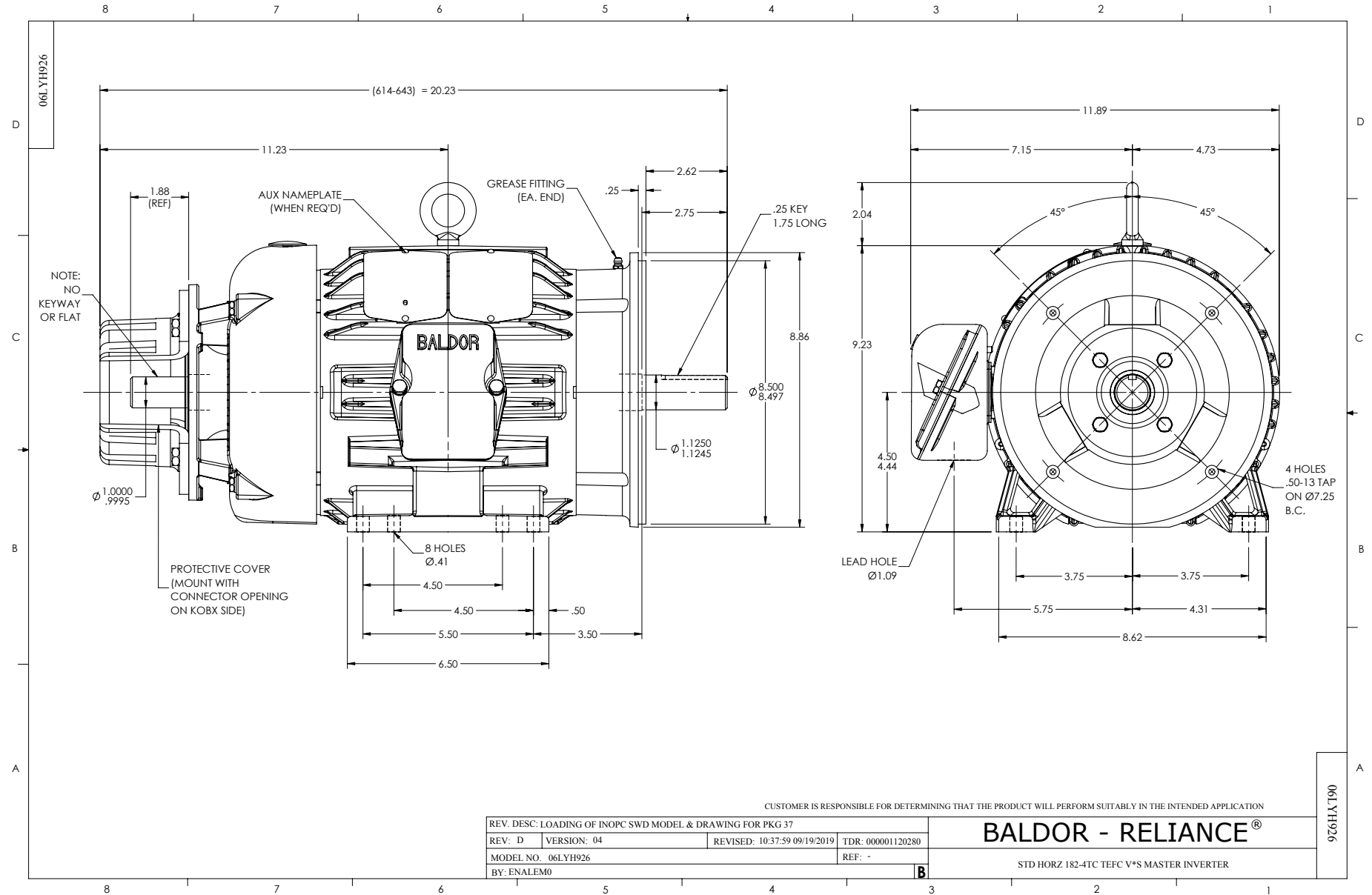
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CK BY Michael Williamson
APP BY Michael Williamson
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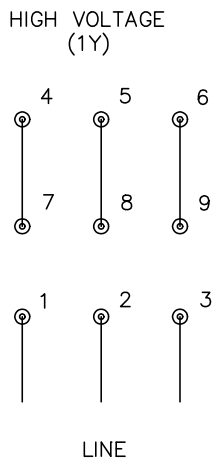
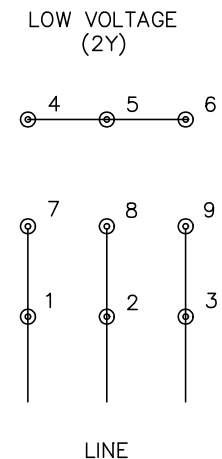
A-C MOTOR
PERFORMANCE CURVES

06G938X182Z1

SH 1 of 2
ISSUE DATE 8/27/2012



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005