ABB BALDOR RELIANCE

Customer information packet

ZDVSNM3665T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0642M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
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	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
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	M
Type	AC
Mech. spec.	06H929
Base	
Status	PRD/A
Elec. spec.	06WGX369
Layout	06LYH929
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-05-2012

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 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	17.85 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	1.00
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

NP4539L							
CAT.NO.	ZDVSNM3665T						
SPEC.	06H929X369Z1						
FRAME	184TC		**H.P.**	5 TE			
VOLTS	230/460 1000:1 CT/VT						
MAG. CUR.	7.2/3.6				**F.L. AMPS**	13.2/6.6	
R.P.M.	1750		**R.P.M. MAX**	6000			
HZ.	60	**PH.**	3	**CLASS**	F		
SER.F.	1.00	**DES.**	A	**SL HZ**	1.6		
NEMA NOM. EFF.	89.5	**WK2**	0.39				
BLWR V		**PH**		**HZ**		**AMPS**	
RATING	40C AMB-CONT						
DE	6206	**ODE**	6206				
CC	010A	**SN**					
	1.5:1 CHP PWM						

Parts List

Part number	Description	Quantity
SA251081	SA 06H929X369Z1	1.000 ea
RA237925	RA 06H929X369Z1	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
36EP1301A81	FRONT 182-4C 206 BRG W/ GRS & DRILLED T-	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
HA3101A39	THRUBOLT 1/4-20 X 10.687	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
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
OE5001A80SP	ENCDR KIT TENV W/OEHS35A10 W/BLIND SHAFT	1.000 ea
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.028 ga
LC0145B01	CONNECTION LABEL	1.000 ea
NP4539L	SS VEC UL EEV NEMA PREM CC	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.	ZDVSNM3665T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	184TC	AMPS	6.6	MAX SAFE RPM	6000	(AT BASE RATING, 25^{0}C)			
HP	5	DUTY	CONT	In (AMPS)	3.6	R1	1.1200	X1	2.8100
BASE SPEED	1750	S.F.	1.0	P.F. @NL/FL	6/79	R2	0.9210	X2	2.3200
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (lb-ft^2)	0.4			XM	68.7200

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1751	5.0	15.00	460	60	6.54
Max Speed	2626	5.0	9.98	460	90	5.95
Min Speed	0	0.0	14.97	32.29	1.63	6.54

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.00	460	60	3.60
1/4	1788	1.3	3.74	460	60	3.72
1/2	1777	2.5	7.52	460	60	4.37
3/4	1764	3.8	11.30	460	60	5.41
Full Load	1751	5.0	15.00	460	60	6.54
O/L	1708	10.0	30.70	460	60	12.00

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

Remarks: Calculated Data
Vector PWM Inverter Duty

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CK BY Micheal Williamson
APP BY Micheal Williamson
DATE 5/14/2013

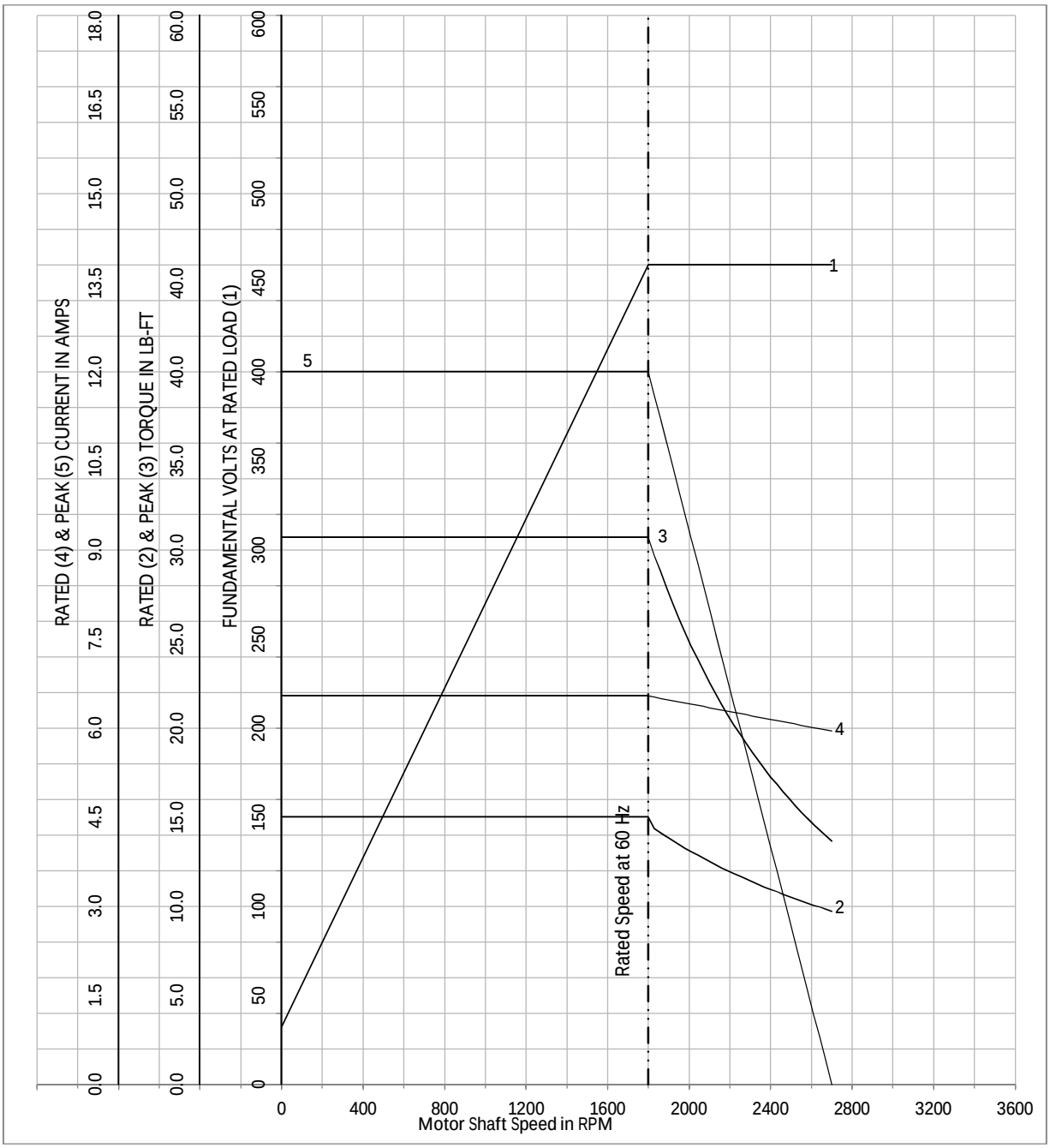
A-C MOTOR PERFORMANCE CURVES

06H929X369Z1

ISSUE DATE 5/14/2013

REL S.O.	ZDVSNM3665T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	184TC	AMPS	6.6	MAX SAFE RPM	6000	(AT BASE RATING, 25^{0}C)			
HP	5	DUTY	CONT	In (AMPS)	3.6	R1	1.1200	X1	2.8100
BASE SPEED	1750	S.F.	1.00	P.F. @NL/FL	6/79	R2	0.9210	X2	2.3200
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (lb-ft^2)	0.4			XM	68.7200

Vector PWM Inverer Duty
Variable Speed AC Motor Curves



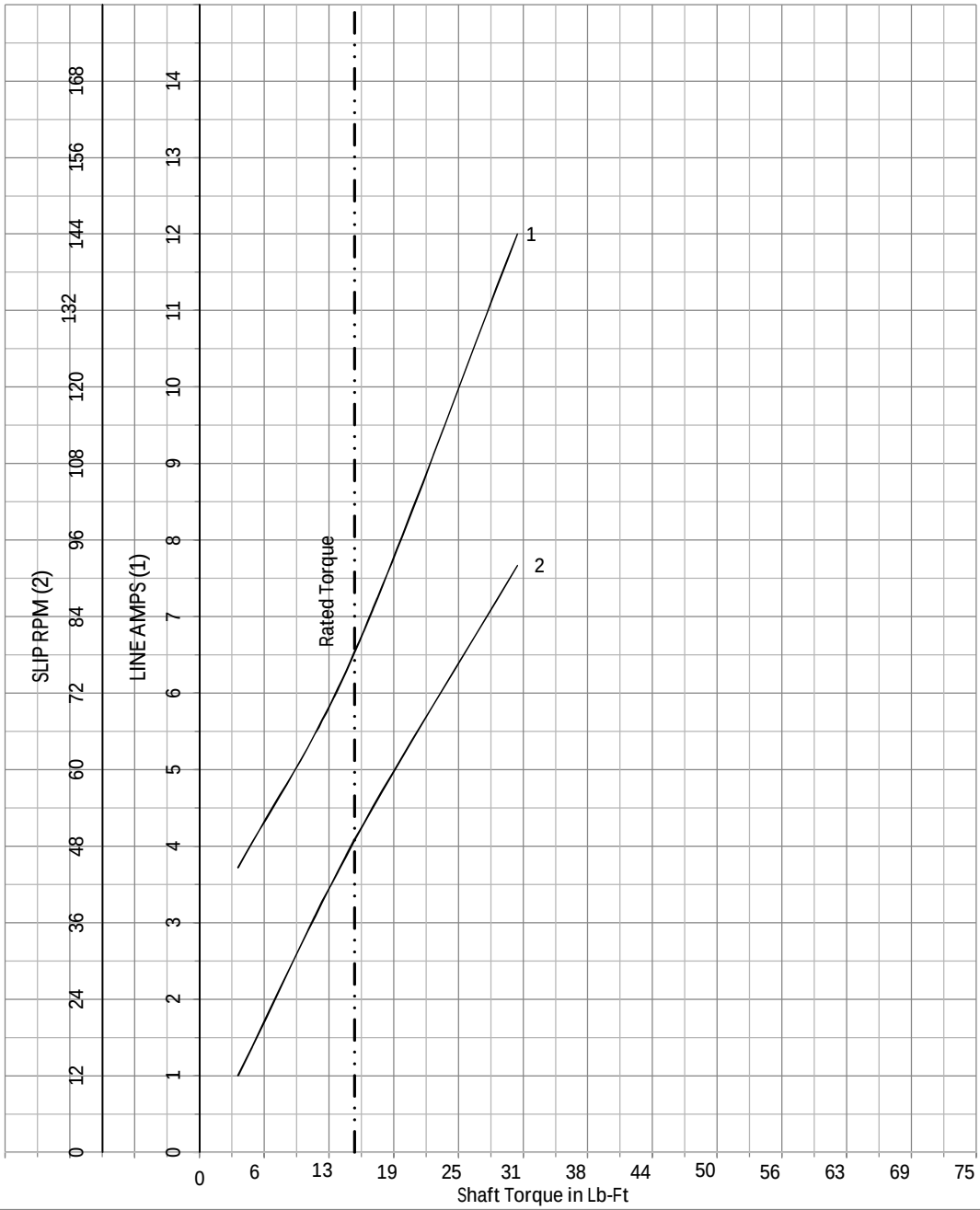
Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR A MEMBER OF THE ABB GROUP	DR BY Micheal Williamson CK BY Micheal Williamson APP BY Micheal Williamson DATE 5/14/2013	A-C MOTOR PERFORMANCE CURVES	06H929X369Z1 SH 1 of 2 ISSUE DATE 5/14/2013

REL S.O.	ZDVSNM3665T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	184TC	AMPS	6.6	MAX SAFE RPM	6000	(AT BASE RATING, 25^{0}C)			
HP	5	DUTY	CONT	In (AMPS)	3.6	R1	1.1200	X1	2.8100
BASE SPEED	1750	S.F.	1.00	P.F. @NL/FL	6/79	R2	0.9210	X2	2.3200
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (Lb-Ft^2)	0.4			XM	68.7200

Vector PWM Inverer Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

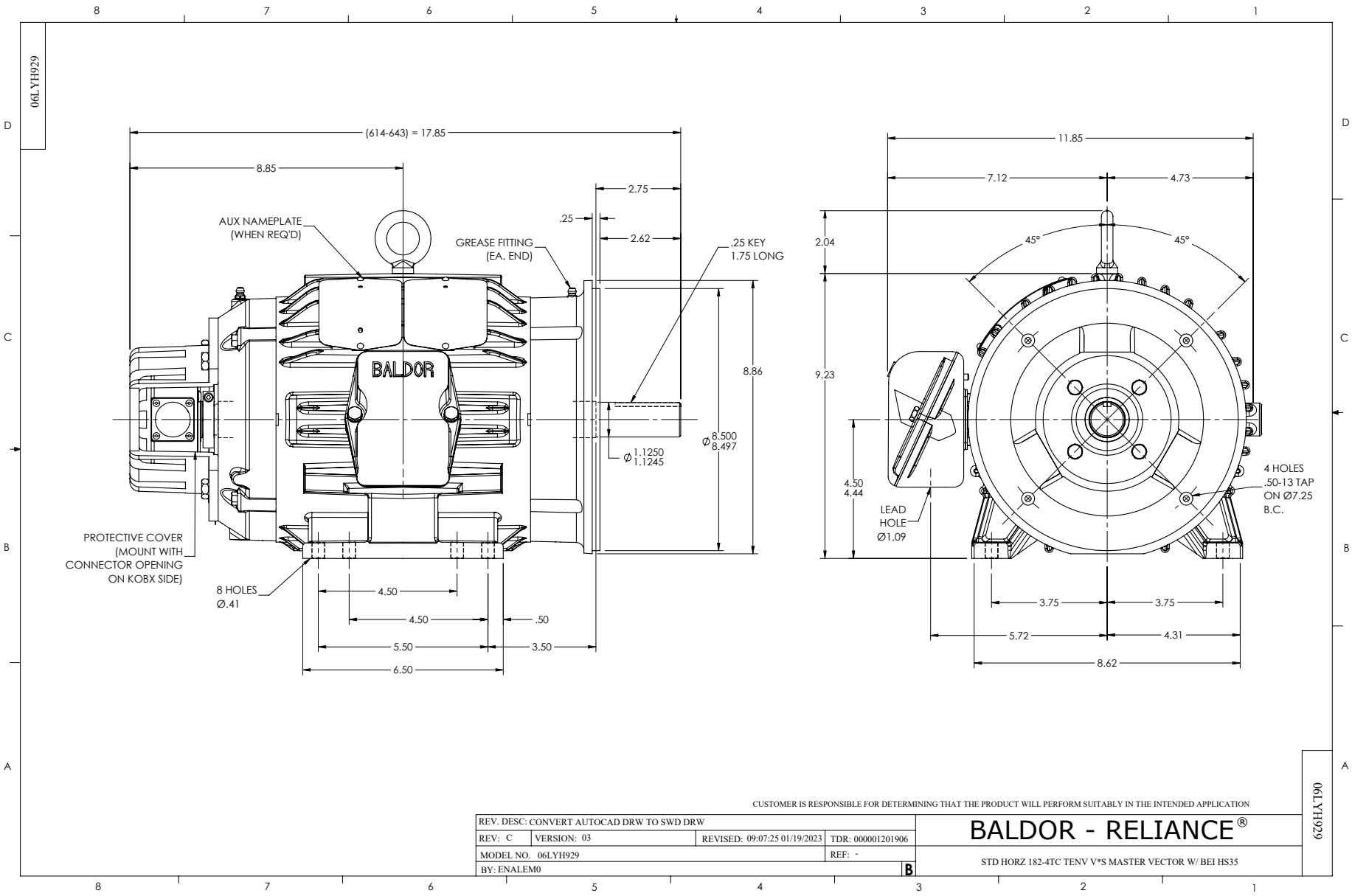
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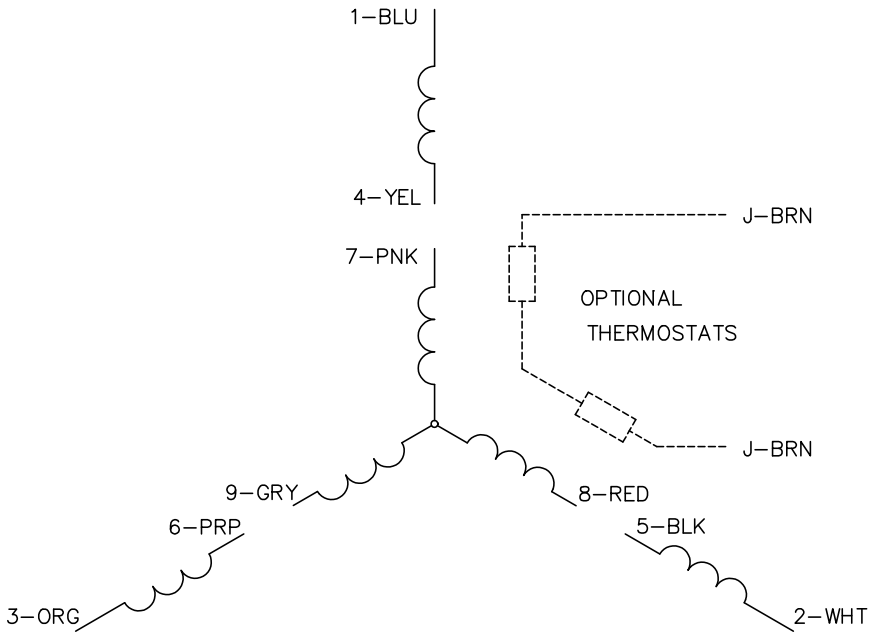
A-C MOTOR
PERFORMANCE CURVES

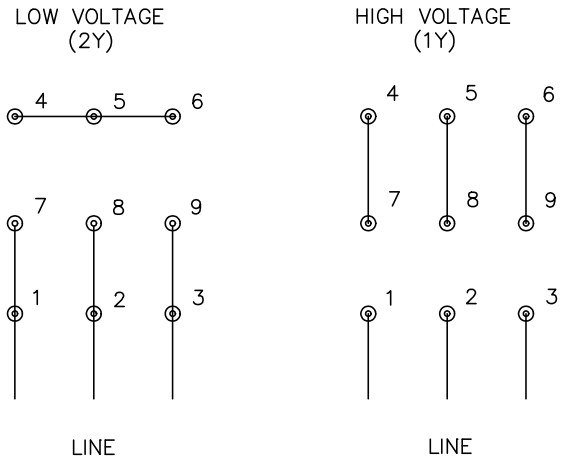
06H929X369Z1

SH 2 of 2
ISSUE DATE 5/14/2013


06LYH929
(614-643) = 17.85
8.85
2.75
.25
2.62
.25 KEY
1.75 LONG
AUX NAMEPLATE
(WHEN REQ'D)
GREASE FITTING
(EA. END)
BALDOR
8.86
Ø 8.500
8.497
Ø 1.1250
1.1245
PROTECTIVE COVER
(MOUNT WITH
CONNECTOR OPENING
ON KOBX SIDE)
8 HOLES
Ø.41
4.50
4.50
.50
5.50
3.50
6.50
11.85
7.12
4.73
2.04
45°
45°
9.23
4.50
4.44
LEAD
HOLE
Ø1.09
4 HOLES
.50-13 TAP
ON Ø7.25
B.C.
3.75
3.75
5.72
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: C
VERSION: 03
REVISED: 09:07:25 01/19/2023
TDR: 000001201906
MODEL NO. 06LYH929
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4TC TENV V*S MASTER VECTOR W/ BEI HS35
06LYH929

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