ABB BALDOR RELIANCE

Customer information packet

ZDVSM3661T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182TC
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	3.000 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	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	ENCODER
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	No Key Or Flat
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a

Part Detail

Revision	N
Type	AC
Mech. spec.	06H928
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYH928
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	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.23 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	Shaft 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

NP4357L							
CAT NO	ZDVSM3661T						
SPEC.	06H928X181Z1						
FRAME	182TC		**HP**	3 TE			
VOLTS	230/460						
MAG CUR	4.2/2.1			**FLA**	8.2/4.1		
RPM	1755		**RPM MAX**	5400			
HZ	60	**PH**	3	**CLASS**	F		
SER.F.	1.00		**SL HZ**	1.5			
NEMA-NOM-EFF	89.5		**WK2**	0.3			
RATING	40C AMB-CONT						
DE BRG	6206		**ODE BRG**	6206			
CC	010A	**SN**					
	1.5:1 CHP PWM						
	1000:1 CT/VT						

Catalog	ZDVSM3661T	NP VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	182TC	NP AMPS	8.2/4.1	MAX SAFE RPM	2700	R1	2.080	X1	5.490
HP	3	DUTY	Cont	NL AMPS	2.14	R2	1.478	X2	4.58
BASE SPEED	1755	S.F.	1.00	P.F. @NL/FL	0/77			XM	119.332
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (lb-ft^2)	0.298				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1757	3.0	9.1	460	60	4.1
Max Speed	2634	3.0	6.0	460	90	3.8
Min Speed	0	0.0	9.1	33.49	1.43	4.1

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	2.1
1/4	1790	0.8	2.3	460	60	2.3
1/2	1779	1.5	4.5	460	60	2.8
3/4	1769	2.3	6.8	460	60	3.4
Full Load	1757	3.0	9.1	460	60	4.1
O/L	1712	6.1	18.6	460	60	7.8

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

Remarks: Calculated Data
Vector PWM Inverter Duty

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DR BY	HDO
CK BY	
APP BY	HDO
DATE	3/17/2015

A-C MOTOR PERFORMANCE CURVES

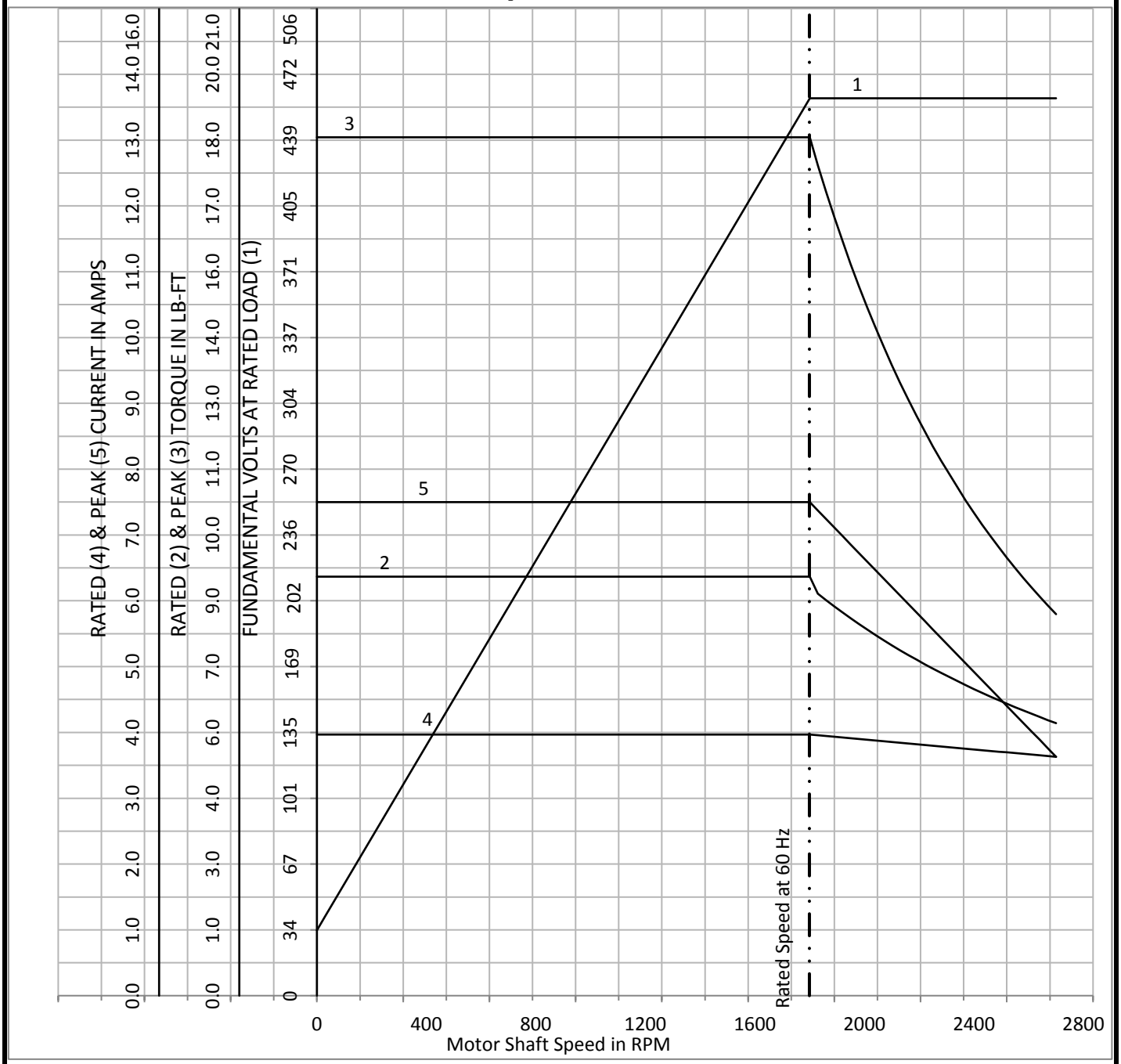
06H928X181Z1

ISSUE DATE 3/17/2015

Catalog	ZDVSM3661T	VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	182TC	AMPS	8.2/4.1	MAX SAFE RPM	2700	R1	2.08	X1	5.49
HP	3	DUTY	Cont	In (AMPS)	2.14	R2	1.478	X2	4.581
BASE SPEED	1755	S.F.	1.00	P.F. @NL/FL	0/77			XM	119.332
PHASE/HZ	3/60	AMB^{0}C/INS	40/F	WK^2 (lb-ft^2)	0.298				

Vector PWM Inverer Duty

Variable Speed AC Motor Curves



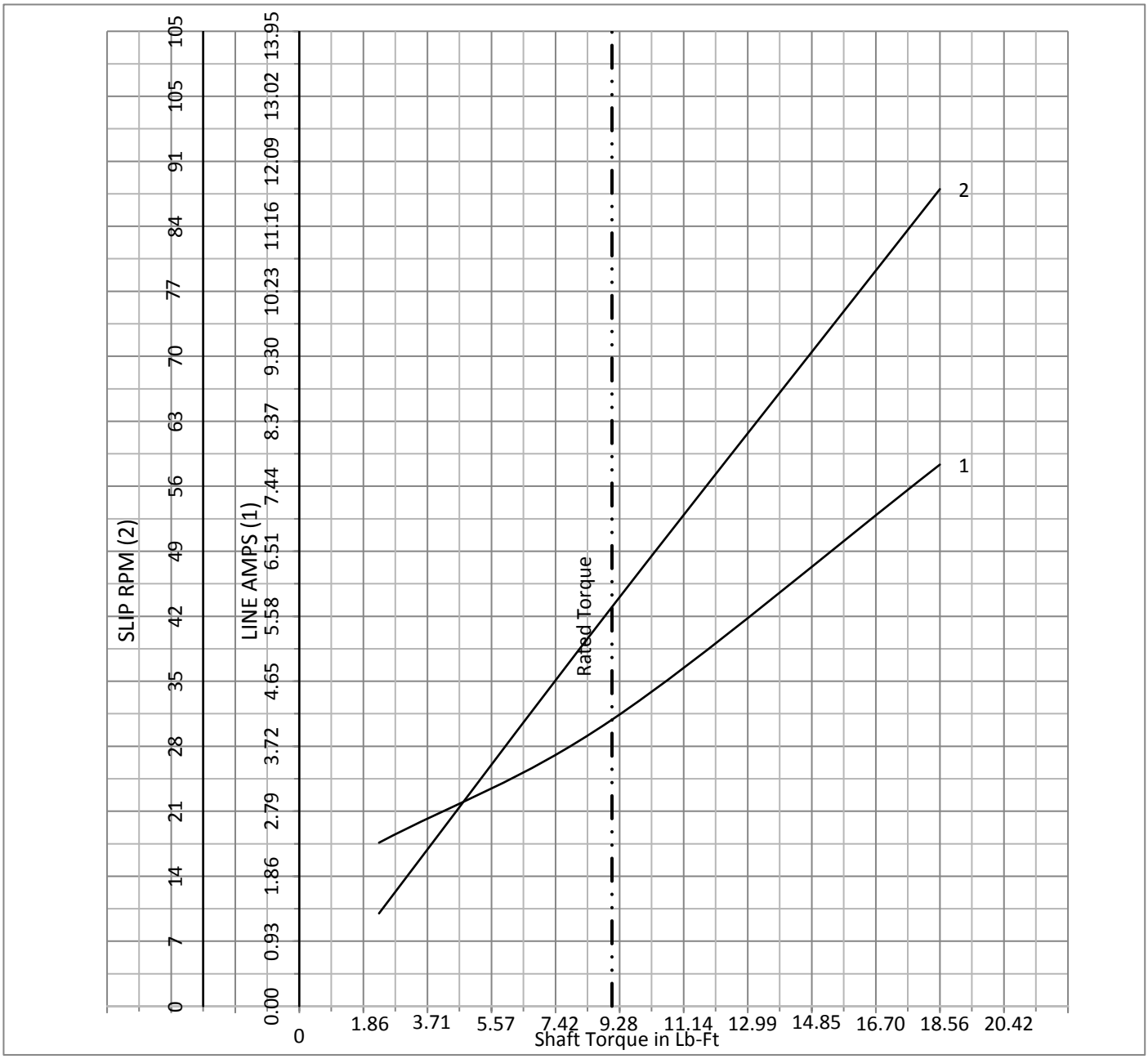
Calculated Data

Data Valid For Nameplate Speed Range only

Catalog	ZDVSM3661T	NP VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	182TC	NP AMPS	8.2/4.1	MAX SAFE RPM	2700	R1	2.08	X1	5.49
HP	3	DUTY	Cont	NL AMPS	2.14	R2	1.478	X2	4.581
BASE SPEED	1755	S.F.	1.00	P.F. @NL/FL	0/77			XM	119.332
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (lb-ft^2)	0.298				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

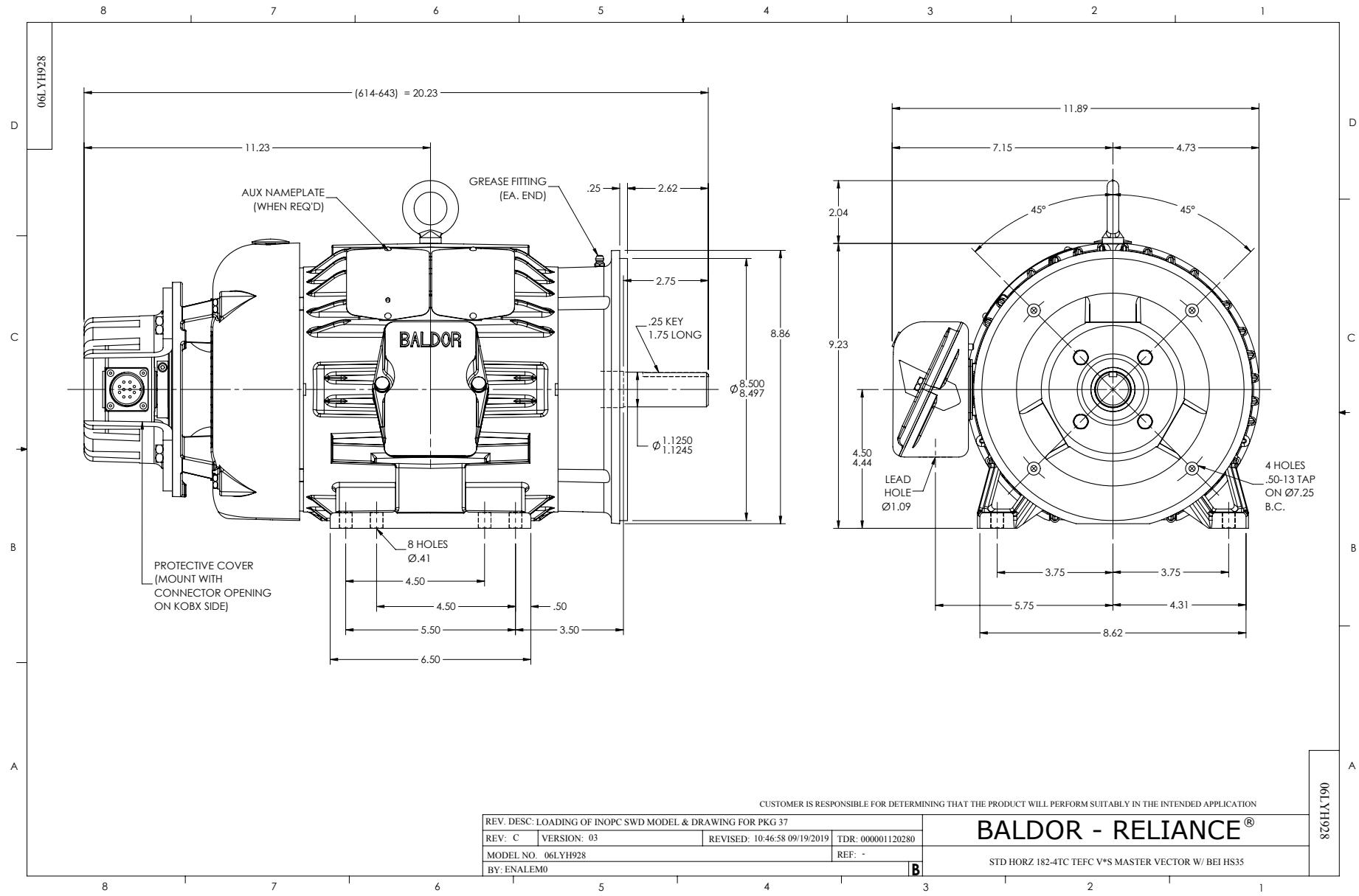
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APP BY	HDO
DATE	3/17/2015

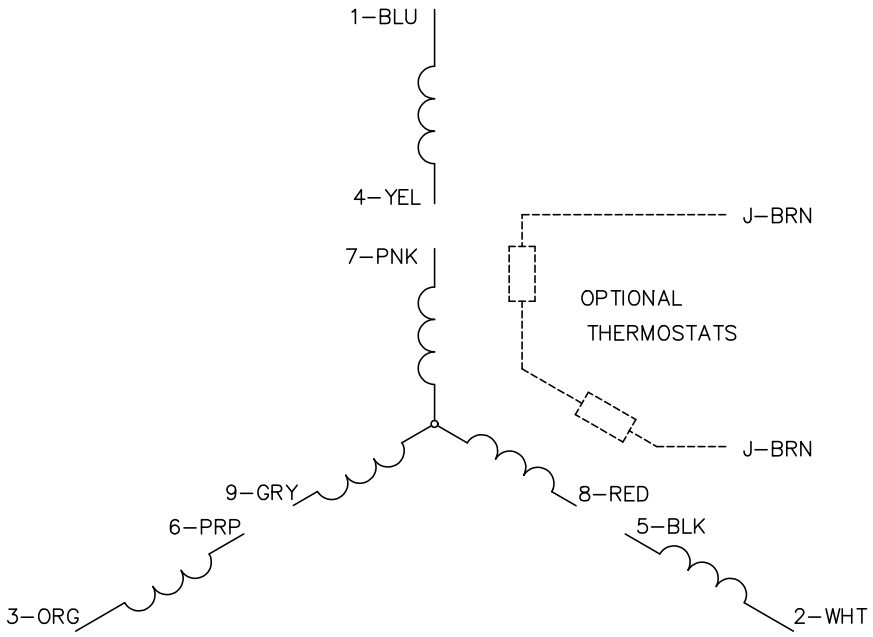
A-C MOTOR PERFORMANCE CURVES

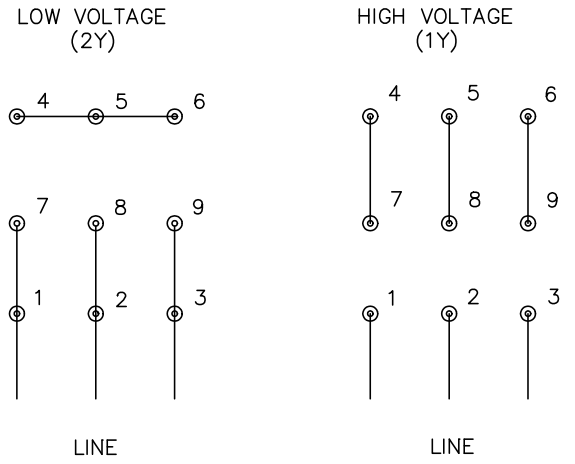
06H928X181Z1

ISSUE DATE 3/17/2015


06LYH928
(614-643) = 20.23
11.23
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EA. END)
.25
2.62
2.75
.25 KEY 1.75 LONG
8.86
Ø 8.500 8.497
Ø 1.1250 1.1245
BALDOR
8 HOLES Ø.41
4.50
4.50
.50
5.50
3.50
6.50
PROTECTIVE COVER (MOUNT WITH CONNECTOR OPENING ON KOBX SIDE)
11.89
7.15
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
5.75
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: C VERSION: 03 REVISED: 10:46:58 09/19/2019 TDR: 000001120280
MODEL NO. 06LYH928 REF: -
BY: ENALEM0 B
BALDOR - RELIANCE®
STD HORZ 182-4TC TEFC V*S MASTER VECTOR W/ BEI HS35
06LYH928

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