

**BALDOR • RELIANCE**

---

# Customer information packet

## ZDVSCP3661T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1

Class - None

Division - Not Applicable

## 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	RESOLVER
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	M
Type	AC
Mech. spec.	06H932
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYH932
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-04-2012

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	5400 rpm
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	9 @ 16 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0632M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	20.23 IN
<b>Power Factor</b>	77
<b>Product Family</b>	Chemical Processing (Not DC)
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	1755 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3948L</b>	
<b>CAT NO</b>	ZDVSCP3661T
<b>SPEC.</b>	06H932X181Z1
<b>FRAME</b>	182TC <b>HP</b> 3 TE
<b>VOLTS</b>	230/460 1000:1 CT/VT
<b>MAG CUR</b>	4.2/2.1 <b>FLA</b> 8.2/4.1
<b>RPM</b>	1755 <b>RPM MAX</b> 5400
<b>HZ</b>	60 <b>PH</b> 3 <b>CLASS</b> F
<b>SER.F.</b>	1.00 <b>DES</b> B <b>SL HZ</b> 1.5
<b>NEMA-NOM-EFF</b>	89.5 <b>WK2</b> 0.3
<b>BLWR V</b>	PH      HZ      A
<b>RATING</b>	40C AMB-CONT
<b>DE BRG</b>	6206 <b>ODE BRG</b> 6206
<b>CC</b>	010A <b>SN</b>
	1.5:1 CHP PWM

REL S.O.	ZDVSCP3661T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN	EQ CKT	OHMS PER PHASE
FRAME	182TC	AMPS	4.1	MAX SAFE RPM	5400	2.1	R1	(AT BASE RATING, 25°C)
HP	3	DUTY	CONT	In (AMPS)	6/77	R2	1.4800	X1 5.4900
BASE SPEED	1755	S.F.	1.0	P.F. @NL/FL	40/F	WK <sup>2</sup> (lb-ft <sup>2</sup> )	0.298	X2 4.5800
PHASE/HZ	3/60	AMB°C/INSUL	40/F					XMI 119.3000

**Rated Full Load Data**

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1757	3.0	9.06	460	60	4.10
Max Speed	2630	3.0	6.04	460	90	3.90
Min Speed	0	0.0	9.06	33.37	1.43	4.10

**Load Performance at Base Speed**

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.00	460	60	2.10
1/4	1789	0.8	2.31	460	60	2.34
1/2	1779	1.5	4.54	460	60	2.79
3/4	1769	2.3	6.80	460	60	3.39
Full Load	1757	3.0	9.06	460	60	4.10
O/L	1700	6.5	20.20	460	60	8.50

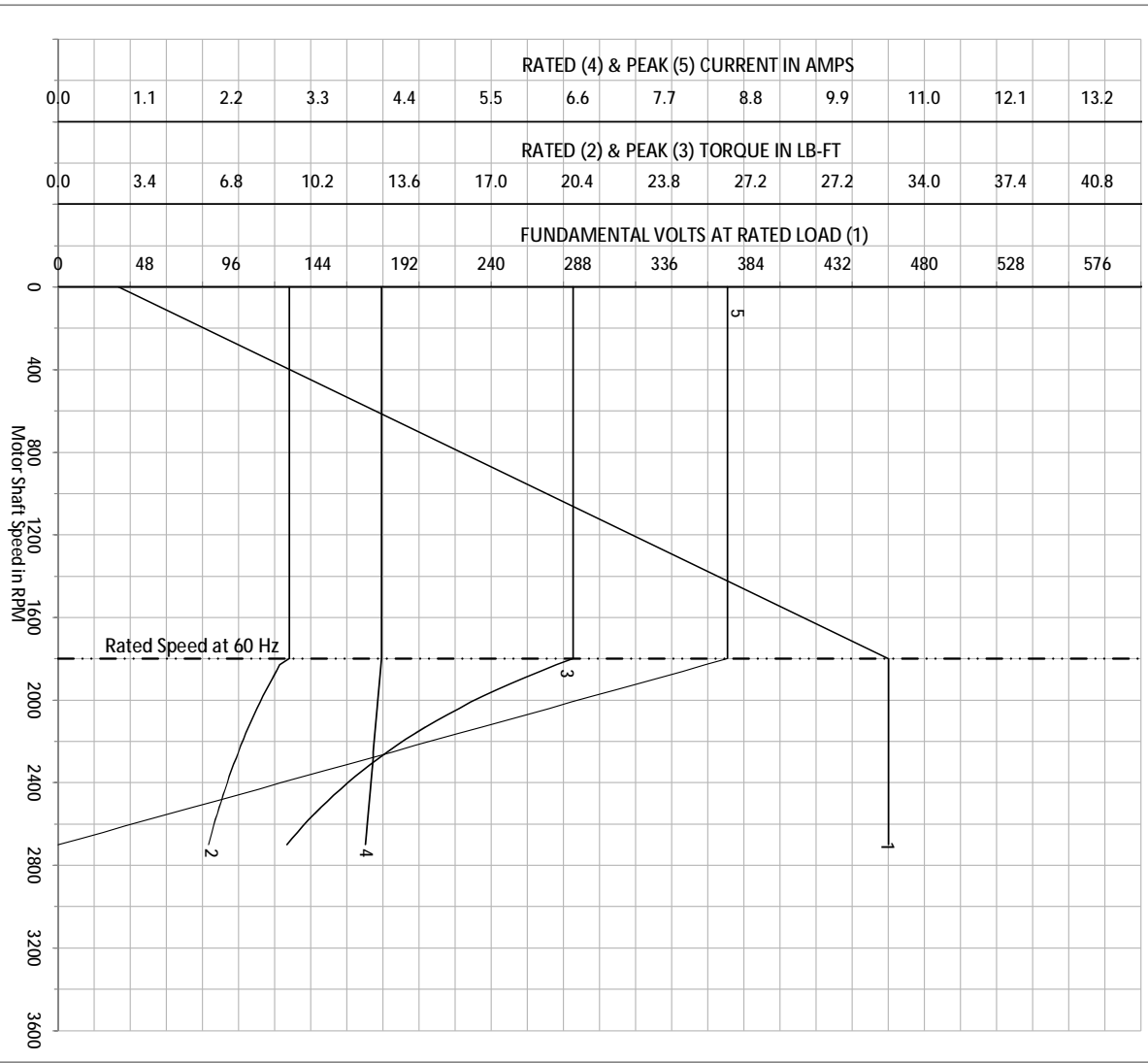
Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data  
Vector PWM Inverter Duty

 <p><b>A MEMBER OF THE ABB GROUP</b></p>	DR BY	Michael Williamson	<p>A-C MOTOR</p> <p>PERFORMANCE CURVES</p> <p><b>06H932X181Z1</b></p>	
	CK BY	Michael Williamson		
	APP BY	Michael Williamson	ISSUE DATE	8/20/2012
	DATE	8/20/2012		

REL S.O.	ZDVSCP3661T	VOLTS	460	ENCLOSURE	TEFC	WYE CONNECTED OHMS PER PHASE
FRAME	182TC	AMPS	4.1	MAX SAFE RPM	5400	(AT BASE RATING, 25°C)
HP	3	DUTY	CONT	In (AMPS)	2.1	R1 2.0800 X1 5.4900
BASE SPEED	1755	S.F.	1.00	P.F. @NL/FL	6/77	R2 1.4800 X2 4.5800
PHASE/HZ	3/60	AMB°C/INSUL	40/F	WK² (lb-ft²)	0.298	XMI 119.3000

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

**BALDOR**  
A MEMBER OF THE ABB GROUP

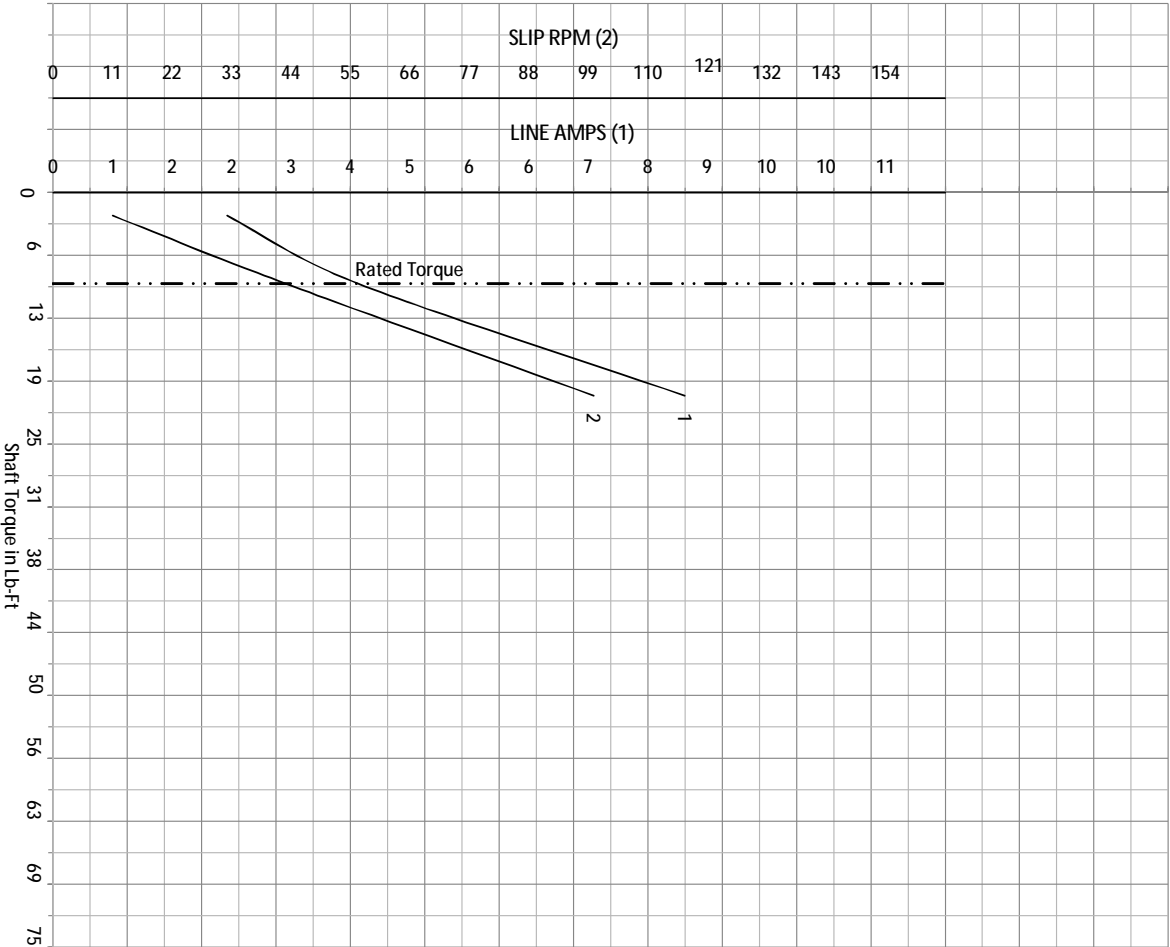
DR BY: Michael Williamson  
CK BY: Michael Williamson  
APP BY: Michael Williamson  
DATE: 8/20/2012

A-C MOTOR PERFORMANCE CURVES

06H932X181Z1  
SH 1 of 2  
ISSUE DATE: 8/20/2012

REL S.O.	ZDVSCP3661T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)
FRAME	182TC	AMPS	4.1	MAX SAFE RPM	5400	
HP	3	DUTY	CONT	In (AMPS)	2.1	R1 2.0800 X1 5.4900
BASE SPEED	1755	S.F.	1.00	P.F. @NL/FL	6/77	R2 1.4800 X2 4.5800
PHASE/HZ	3/60	AMB°C/INSUL	40/F	WK <sup>2</sup> (Lb-Ft <sup>2</sup> )	0.298	XM 119.3000

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

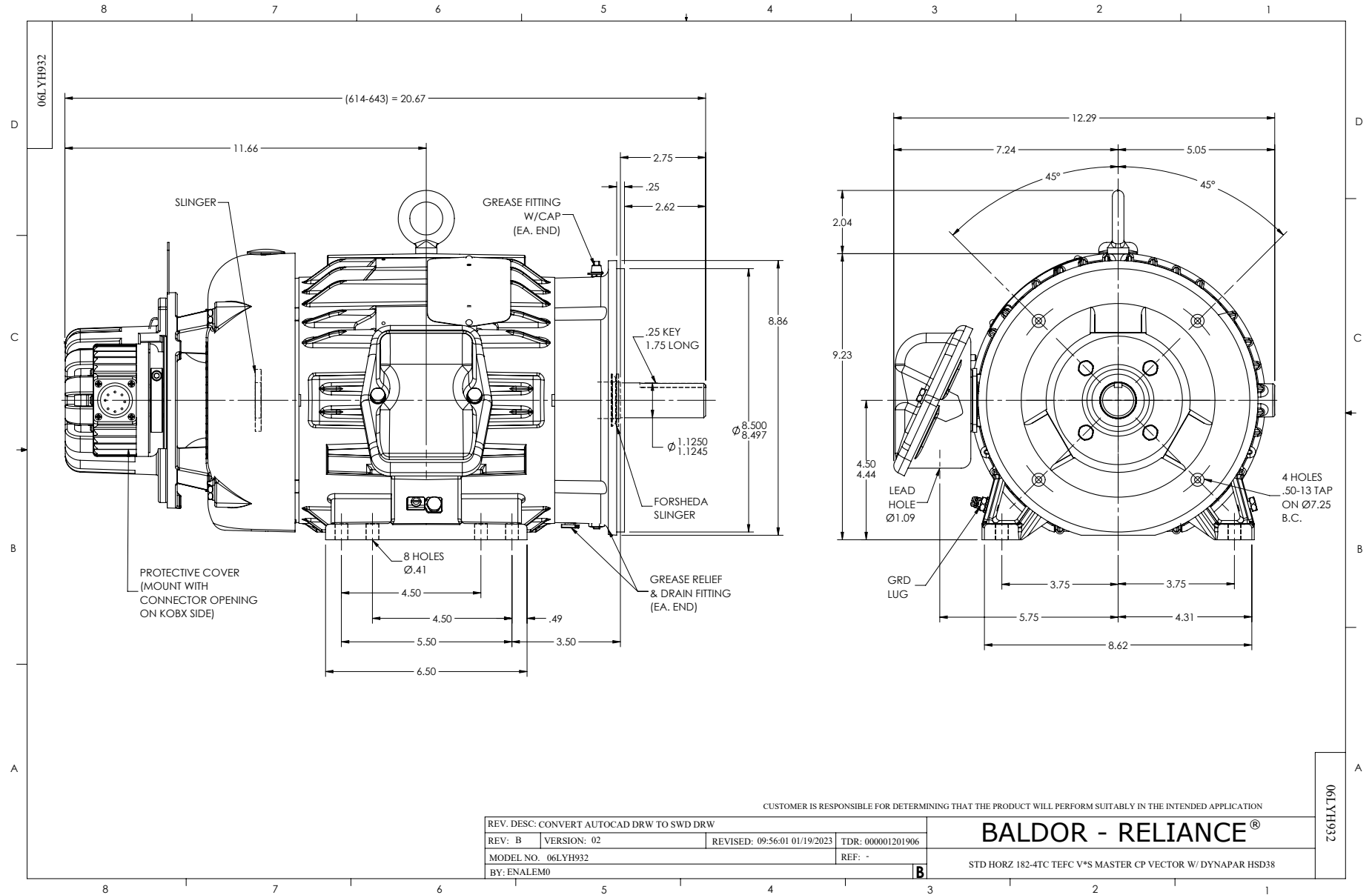


DR BY Michael Williamson  
CK BY Michael Williamson  
APP BY Michael Williamson  
DATE 8/20/2012

A-C MOTOR  
PERFORMANCE CURVES

06H932X181Z1  
SH 2 of 2  
ISSUE DATE 8/20/2012

A MEMBER OF THE ABB GROUP



CD0005

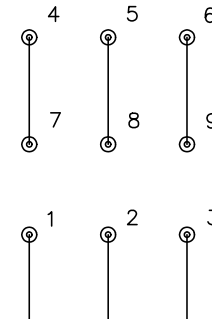


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS