

ABB BALDOR RELIANCE III

Customer information packet

ZDNM3661T

3HP, 1760RPM, 3PH, 60HZ, 184TC, 0632M, TENV, F1

Class - None

Division - Not Applicable

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	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	4.200 A @ 460.0 V 8.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a

Part Detail

Revision	L
Type	AC
Mech. spec.	06F550
Base	
Status	PRD/A
Elec. spec.	06WGX388
Layout	06LYF550
Eff. date	06-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	07-30-2012

Insulation Class	H
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	0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.21 IN
Power Factor	76
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	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

NP4539L									
CAT.NO.	ZDNM3661T								
SPEC.	06F550X388Z1								
FRAME	184TC			H.P.	3 TE				
VOLTS	230/460								
MAG. CUR.	4.6/2.3			F.L. AMPS				8.4/4.2	
R.P.M.	1755			R.P.M. MAX		6000			
HZ.	60		PH.	3	CLASS		H		
SER.F.	1.00		DES.	B	SL HZ		1.5		
NEMA NOM. EFF.	88.5		WK2	0.3					
BLWR V		PH		HZ		AMPS			
RATING	40C AMB-CONT								
DE	6206	ODE		6205					
CC	010A	SN							
	1000:1 CT/VT								

Parts List

Part number	Description	Quantity
SA248618	SA 06F550X388Z1	1.000 ea
RA235484	RA 06F550X388Z1	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	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
36EP1101B70	FR TENV 205 BRG W/ GRSR & THRU-SHAFT ENC	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	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
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 ea
35FH4801G	THRU-SHAFT ENCODER COVER INV/VECTOR F1 &	1.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	4.000 ea
06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HA1005A03SP	SLINGER, OD 1.750, ID .938, 205 BRG	1.000 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
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 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
OE5011A05SP	HS25 ENCODER ASSY - TENV	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga

LC0145B01	CONNECTION LABEL	1.000 ea
NP4539L	SS VEC UL EEV NEMA PREM CC	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea



AC Induction Motor Performance Data
 Record # 39733
 Typical performance - not guaranteed values

Winding: 06WGX388	Type: 0632M	Enclosure: TENV
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Nameplate Data				General Characteristics at 460 V, 60 Hz: High Volt Connection	
Rated Output (HP)	3			Full Load Torque	8.94 LB-FT
Volts	230/460			Start Configuration	DOL
Full Load Amps	8.4/4.2			Break Down Torque	32.8 LB-FT
R.P.M.	1755			Pull-Up Torque	19.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	21.8 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	31.5 Amps
Service Factor	1			No-load Current	2.32 Amps
NEMA Nom. Eff.	88.5	P.F.	76	Line-line Res. @ 25°C.	4.2584 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	74°C
S.F. Amps				Temp. Rise @ S.F. Load	

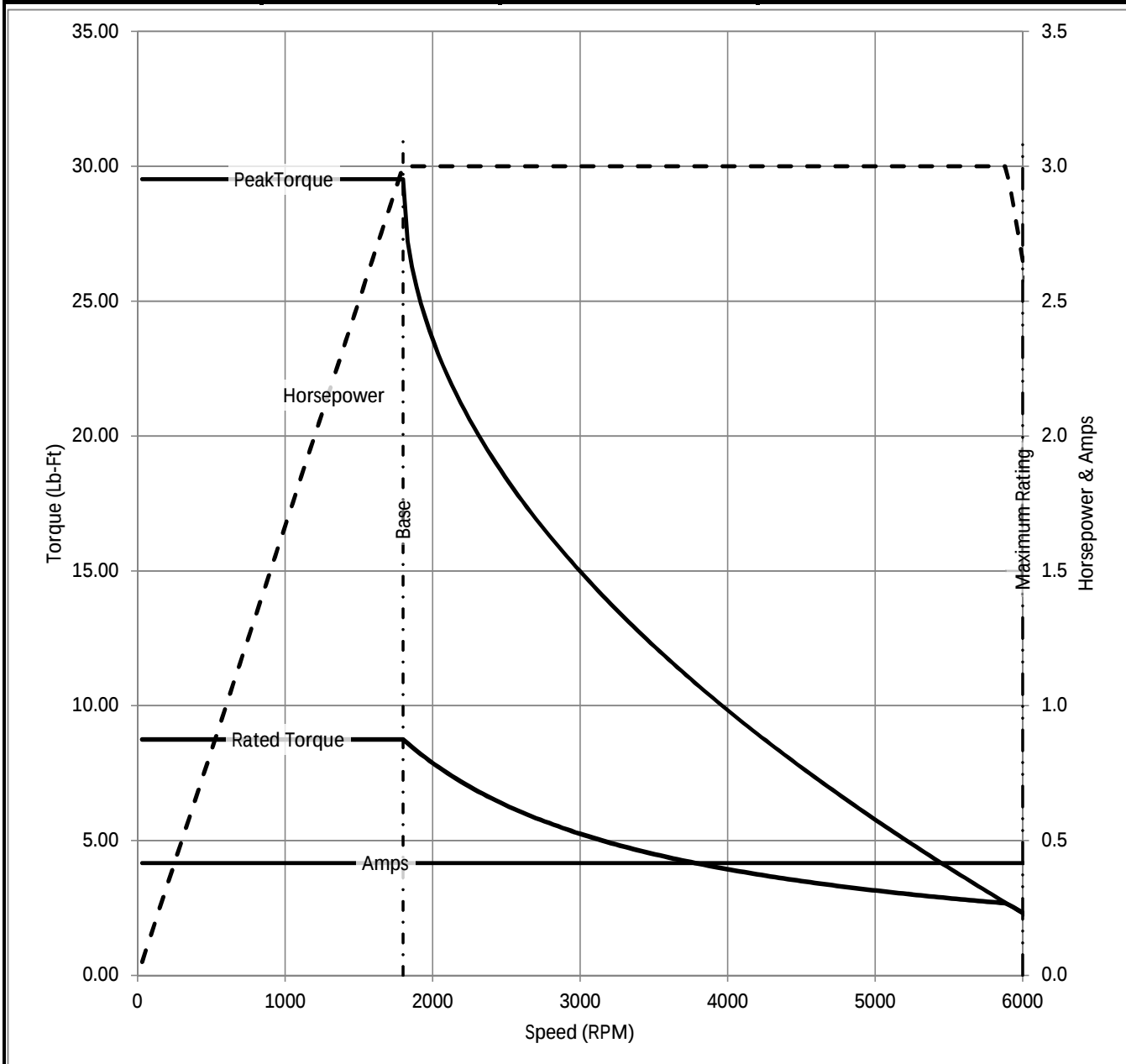
Load Characteristics at 460 Volts, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	55	68	76	80	84	
Efficiency	81.5	87.7	89	88.8	88	86.8	
Speed	1789.5	1779.4	1768.6	1756.8	1744.3	1730.6	
Line Amperes	2.49	2.89	3.47	4.16	4.92	5.79	

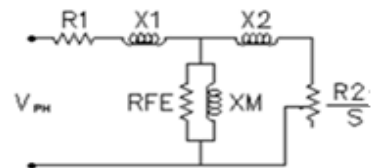
Baldor Electric Company Fort Smith, Arkansas



Catalog	ZDNM3661T	NP VOLTS	230/460	ENCLOSURE	TENV	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	184TC	NP AMPS	8.4/4.2	Base Volts	460	R1	2.110	X1	5.101
HP	3 HP	DUTY	Cont	Base AMPS	4.16	R2	1.290	X2	4.266
BASE SPEED	1800	MAX SAFE RPM	6000	Slip Hz	1.43			XM	108.947
PHASE/HZ	3/60	AMB ⁰ C/INSUL	40/H	WK ² (lb-ft ²)	0.298				



Remarks: Calculated Data


BALDOR
A MEMBER OF THE ABB GROUP

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

A-C MOTOR
PERFORMANCE CURVES

06F550X388Z1

ISSUE DATE 2/27/2013

