

ABB BALDOR RELIANCE III

Customer information packet

ZDM3664T

2HP, 1165RPM, 3PH, 60HZ, 184TC, 0642M, TEBC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	115V 1-Phase EXT
Current @ Voltage	3.200 A @ 460.0 V 6.400 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	3.2 a

Part Detail

Revision	J
Type	AC
Mech. spec.	06F552
Base	
Status	PRD/A
Elec. spec.	06WGW970
Layout	06LYF552
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	12-02-2010

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2200 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	6
Overall Length	21.71 IN
Power Factor	68
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: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1165 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.	ZDM3664T								
SPEC.	06F552W970Z1								
FRAME	184TC			H.P.	2 TE				
VOLTS	230/460								
MAG. CUR.	3.6/1.8			F.L. AMPS				6.4/3.2	
R.P.M.	1165			R.P.M. MAX		2200			
HZ.	60		PH.	3	CLASS			H	
SER.F.	1.00		DES.	B	SL HZ			1.75	
NEMA NOM. EFF.	88.5		WK2	0.395					
BLWR V		PH		HZ		AMPS			
RATING	40C AMB-CONT								
DE	6206		ODE	6205					
CC	010A	SN							
	1000:1 CT/VT								



AC Induction Motor Performance Data

Record # 34349

Typical performance - not guaranteed values

Winding: 06WGW970	Type: 0642M	Enclosure: TEBC
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Nameplate Data				General Characteristics at 460 V, 60 Hz: High Volt Connection	
Rated Output (HP)	2			Full Load Torque	9.01 LB-FT
Volts	230/460			Start Configuration	DOL
Full Load Amps	6.4/3.2			Break Down Torque	31.2 LB-FT
R.P.M.	1165			Pull-Up Torque	16.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	19.9 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	20.9 Amps
Service Factor	1			No-load Current	1.84 Amps
NEMA Nom. Eff.	88.5	P.F.	68	Line-line Res. @ 25°C.	5.42 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	27°C
S.F. Amps				Temp. Rise @ S.F. Load	

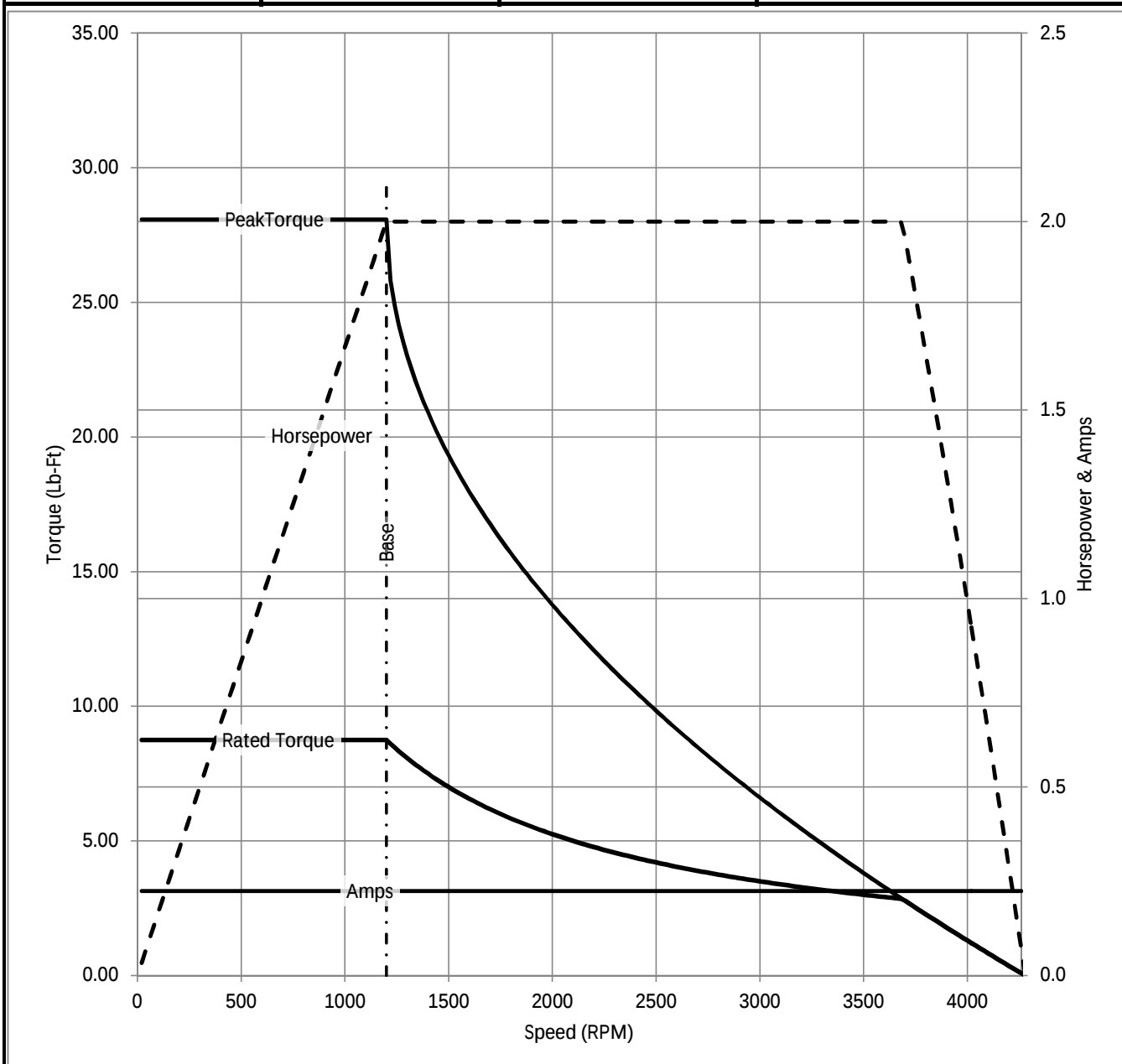
Load Characteristics at 460 Volts, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	60	68	73	75	
Efficiency	80.5	86.9	88.5	88.6	87.9	86.6	
Speed	1193.1	1186	1178.3	1170	1160.8	1150	
Line Amperes	1.97	2.26	2.67	3.14	3.68	4.33	

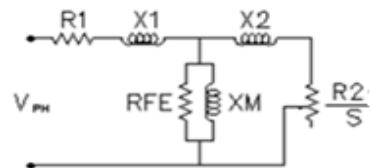
Baldor Electric Company Fort Smith, Arkansas



Catalog	ZDM3664T	NP VOLTS	230/460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	184TC	NP AMPS	6.4/3.2	Base Volts	460	R1	2.510	X1	10.988
HP	2 HP	DUTY	Cont	Base AMPS	3.14	R2	2.350	X2	10.65
BASE SPEED	1200	MAX SAFE RPM	6000	Slip Hz	1.50			XM	138.471
PHASE/HZ	3/60	AMB ⁰ C/INSUL	40/H	WK ² (lb-ft ²)	0.395				



Remarks: Calculated Data

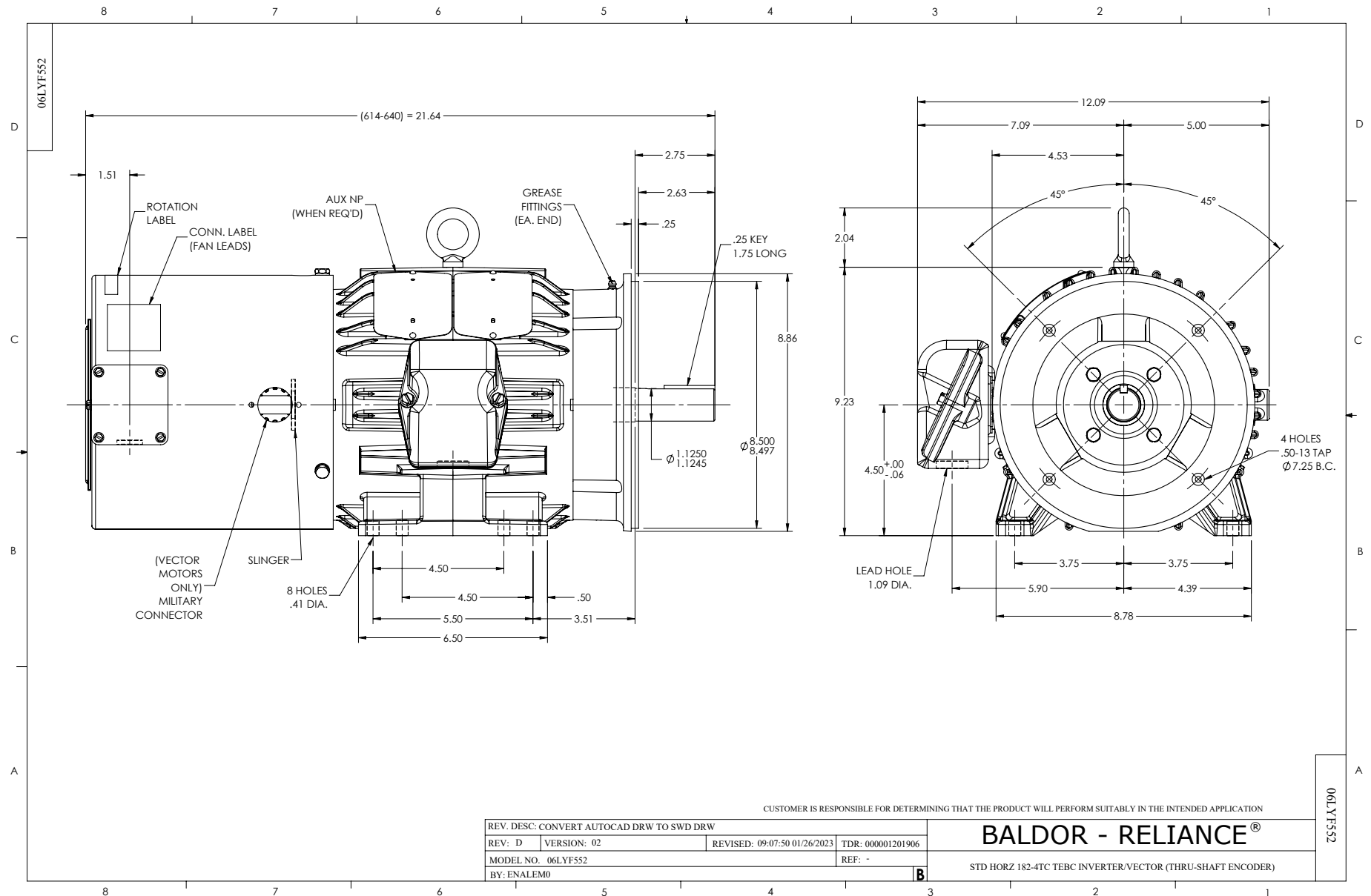

BALDOR
A MEMBER OF THE ABB GROUP

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

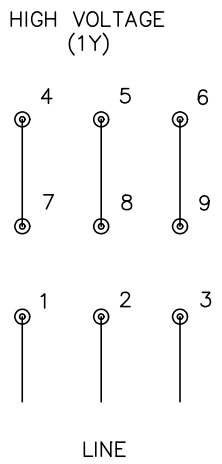
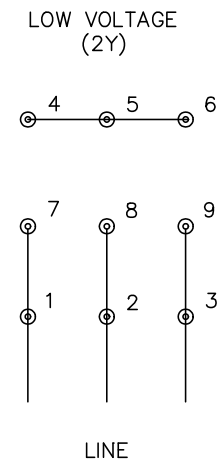
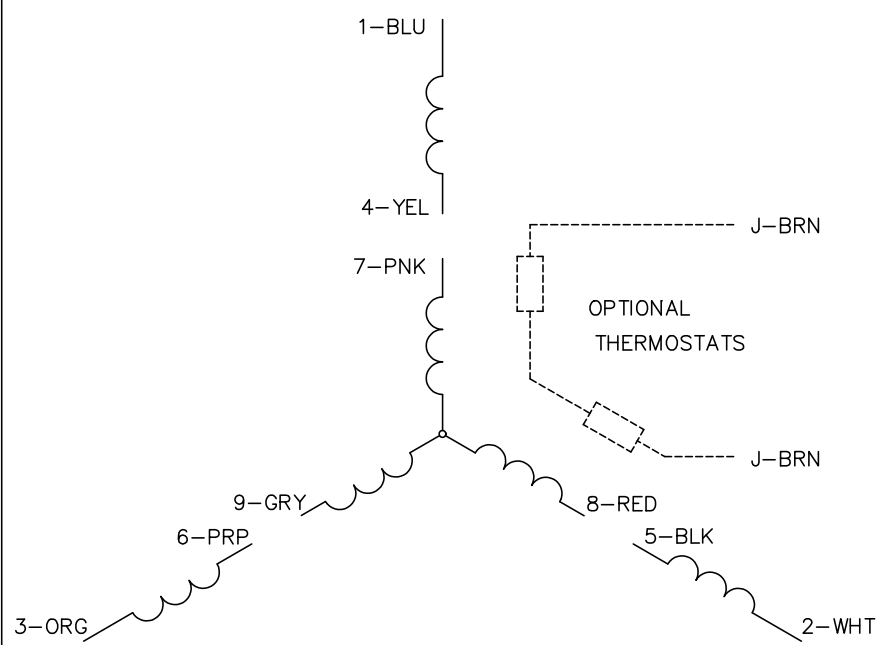
A-C MOTOR
PERFORMANCE CURVES

06F552W970Z1

ISSUE DATE 2/27/2013



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			
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

CD0005