ABB BALDOR RELIANCE

Customer information packet

IDM3665T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0640M, TEBC, F1
Class - None
Division - Not Applicable

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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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	5.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	H
Inverter Code	Inverter Duty

Part Detail

Revision	AD
Type	AC
Mech. spec.	06F552
Base	
Status	PRD/A
Elec. spec.	06WGW357
Layout	06LYF552
Eff. date	09-30-2025
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	01-01-0001

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.71 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
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

NP4009L											
CAT.NO.	IDM3665T-5										
SPEC.	06F552W357G1										
FRAME	184TC			**H.P.**	5 TE						
VOLTS	575										
MAG. CUR.	2.7					**F.L. AMPS**	5.2				
R.P.M.	1750				**R.P.M. MAX**	6000					
HZ.	60		**PH.**	3		**CLASS**	H				
SER.F.	1.00		**DES.**	B		**SL HZ**	1.7				
NEMA NOM. EFF.	90.2		**WK2**	0.37							
BLOWER		**V**	115		**PH**	1	**HZ**	60	**AMPS**	.26	
RATING	40C AMB-CONT										
DE	6206		**ODE**	6205							
CC	010A	**SN**									
	1000:1 CT/VT										

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AC Induction Motor Performance Data

Record # 20660
Typical performance - not guaranteed values

Winding: 06WGW357	**Type:** 0640M	**Enclosure:** TEBC

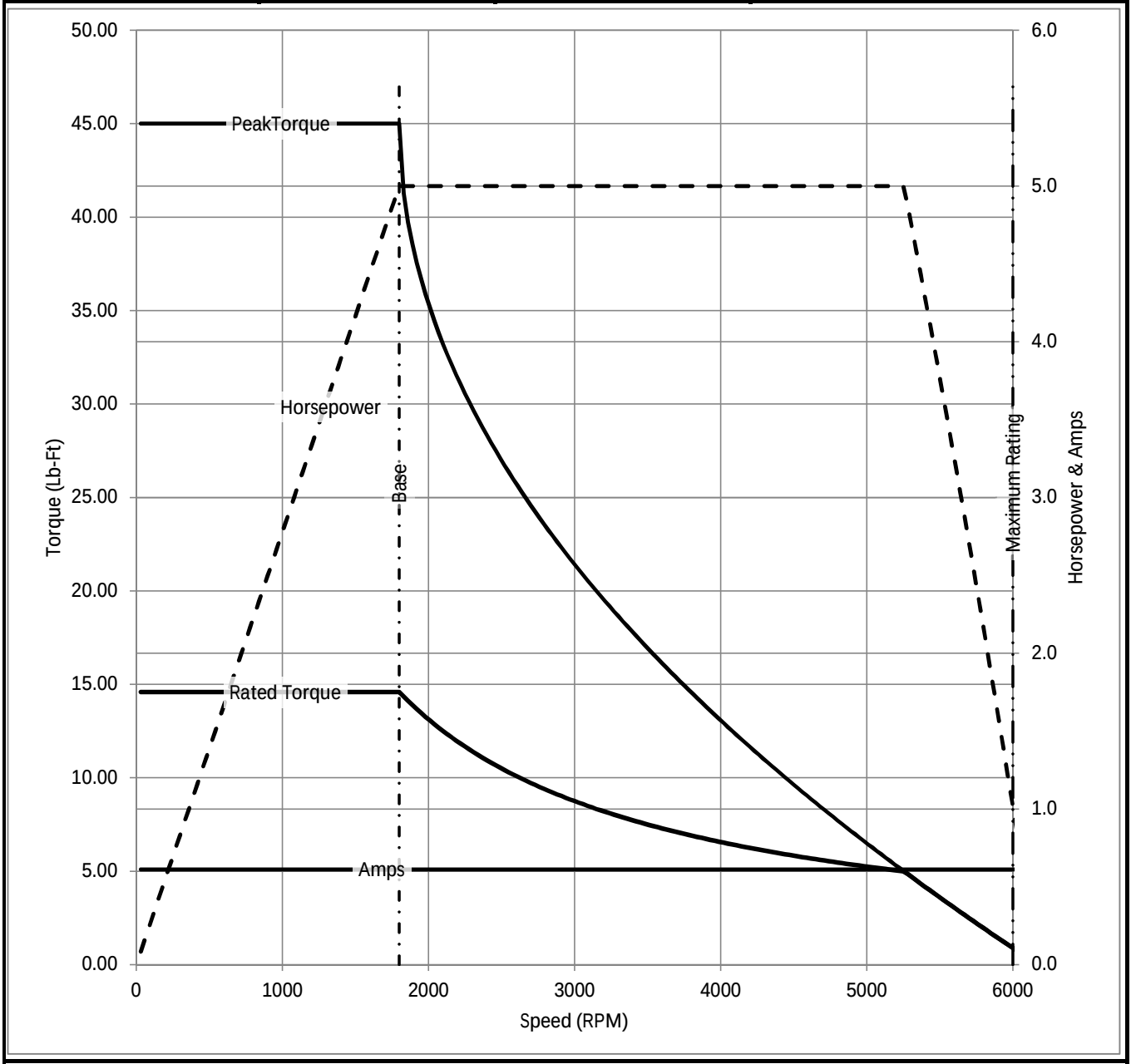
Nameplate Data				General Characteristics at 575 V, 60 Hz: Single Volt Motor	
Rated Output (HP)	5			Full Load Torque	15 LB-FT
Volts	575			Start Configuration	DOL
Full Load Amps	5.2			Break Down Torque	50 LB-FT
R.P.M.	1750			Pull-Up Torque	30 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	32 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	38 Amps
Service Factor	1.00			No-load Current	2.7 Amps
NEMA Nom. Eff.	90.2	P.F.	80	Line-line Res. @ 25°C.	3.86 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	

Load Characteristics at 575 Volts, 60 Hz, 5 HP

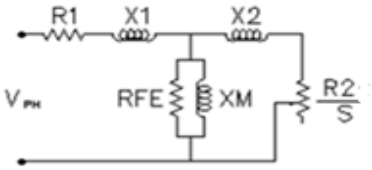
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	75	82	86	88	
Efficiency	84.1	89.4	90.4	90.2	89.4	88.3	
Speed	1789	1778	1767	1755	1742	1729	
Line Amperes	2.9	3.4	4.2	5.1	5.8	7.2	

Baldor Electric Company Fort Smith, Arkansas BALDOR • RELIANCE

Catalog	IDM3665T-5	NP VOLTS	575	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)	
FRAME	184TC	NP AMPS	5.2	Base Volts	575	R1 1.890	X1 4.353
HP	5 HP	DUTY	Cont	Base AMPS	5.1	R2 1.530	X2 3.402
BASE SPEED	1800	MAX SAFE RPM	6000	Slip Hz	1.50		XM 122.943
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/H	WK^2 (lb-ft^2)	0.372		



Remarks: Calculated Data



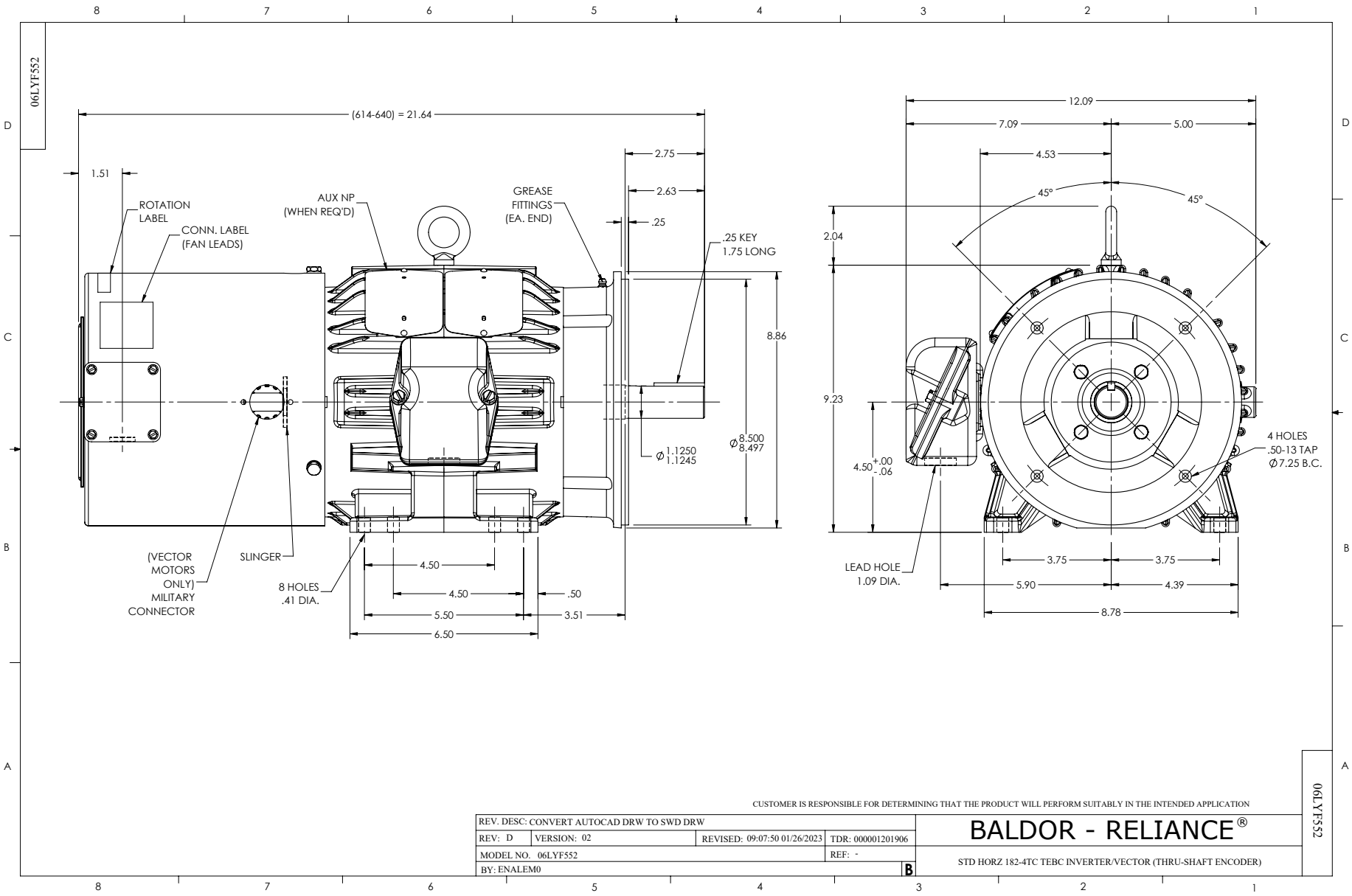
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DR BY ENR
CK BY
APP BY ENR
DATE 2/26/2013

A-C MOTOR
PERFORMANCE CURVES

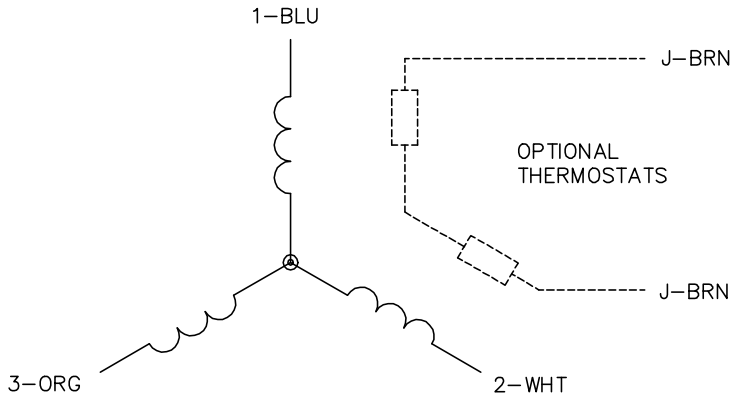
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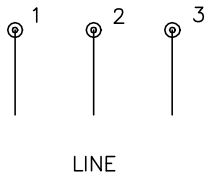
ISSUE DATE 2/26/2013


06LYF552
(614-640) = 21.64
1.51
ROTATION LABEL
CONN. LABEL (FAN LEADS)
AUX NP (WHEN REQ'D)
GREASE FITTINGS (EA. END)
2.75
2.63
.25
.25 KEY 1.75 LONG
8.86
Ø1.1250 1.1245
Ø8.500 8.497
(VECTOR MOTORS ONLY) MILITARY CONNECTOR
SLINGER
8 HOLES .41 DIA.
4.50
4.50
.50
5.50
3.51
6.50
12.09
7.09
5.00
4.53
45°
45°
2.04
9.23
4.50 +.00 -.06
4 HOLES .50-13 TAP Ø7.25 B.C.
LEAD HOLE 1.09 DIA.
3.75
3.75
5.90
4.39
8.78
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: D
VERSION: 02
REVISED: 09:07:50 01/26/2023
TDR: 000001201906
MODEL NO. 06LYF552
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4TC TEBC INVERTER/VECTOR (THRU-SHAFT ENCODER)
06LYF552

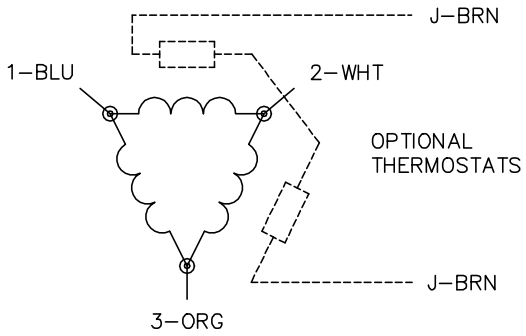
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1