

ABB BALDOR RELIANCE III

Customer information packet

EHM3218TA

5HP, 1750RPM, 3PH, 60HZ, 184T, 3640M, OPSB, F3

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	184T
Frame Material	Steel
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
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	14.000 A @ 208.0 V 6.600 A @ 460.0 V 13.200 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	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	36H650
Base	
Status	PRD/A
Elec. spec.	36WGS536
Layout	36LYH650
Eff. date	07-25-2024
CD Diagram	CD0007
Poles	04
Leads	12#16
Proprietary	False
Created date	07-09-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	16.50 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	Do Not Use Eve-Not Valid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload

Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP2601L									
CAT.NO.	EHM3218TA								
SPEC.	36H650S536E7								
HP	5								
VOLTS	230/460								
AMP	13.2/6.6								
RPM	1750								
FRAME	184T		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	B	CL	F		
NEMA-NOM-EFF	89.5	PF	80						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6205					
ENCL	OPSB	SN							

Parts List

Part number	Description	Quantity
SA199711	SA 36H650S536E7	1.000 ea
RA187038	RA 36H650S536E7	1.000 ea
TPBYV35KR	THERMAL 3PH 1.25 AUT 135C	1.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
36CB3004A03	36 CB 1.09 @ 6 & 12, 1.25 ATO @ 9	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
WD4100A05	DP-1093 HEYCO PLUG OR 62MP1093 MICOR PL	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HA6015A09	THERMAL RETAINER PLATED	1.000 ea
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
36EP3204A00	MASTER ODE,205 BRG	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3205B00	MASTER DE,206 BRG,1.197SH	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1201	LABEL - PERM. LUBRICATED TDR#47800	1.000 ea
HA6362ZP	LIFTING LUG FOR 36 FRAME MOTORS.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
HA3101A40	THRUBOLT 1/4-20 X 12.687	4.000 ea
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0007	CONNECTION LABEL	1.000 ea
NP2601L	ALUM SUPER-E,UL-EEV,NEMA PREM,CC,THERMAL	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 32558

Typical performance - not guaranteed values

Winding: 36WGS536-R005			Type: 3640M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque			15 LB-FT
Volts		230/460	Start Configuration			direct on line
Full Load Amps		13.2/6.6	Breakdown Torque			44.8 LB-FT
R.P.M.		1750	Pull-up Torque			25.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		30.1 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current		44.8 A
Service Factor (S.F.)		1.15	No-load Current			2.97 A
NEMA Nom. Eff.	89.5	Power Factor	80	Line-line Res. @ 25°C		2.62 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			44°C
S.F. Amps			Temp. Rise @ S.F. Load			54°C
			Locked-rotor Power Factor			41
			Rotor inertia			0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	63	75	80	83	84	82
Efficiency	85.4	89.8	90.2	89.6	88.5	86.5	88.9
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	3.32	4.13	5.25	6.57	8.03	9.65	7.45

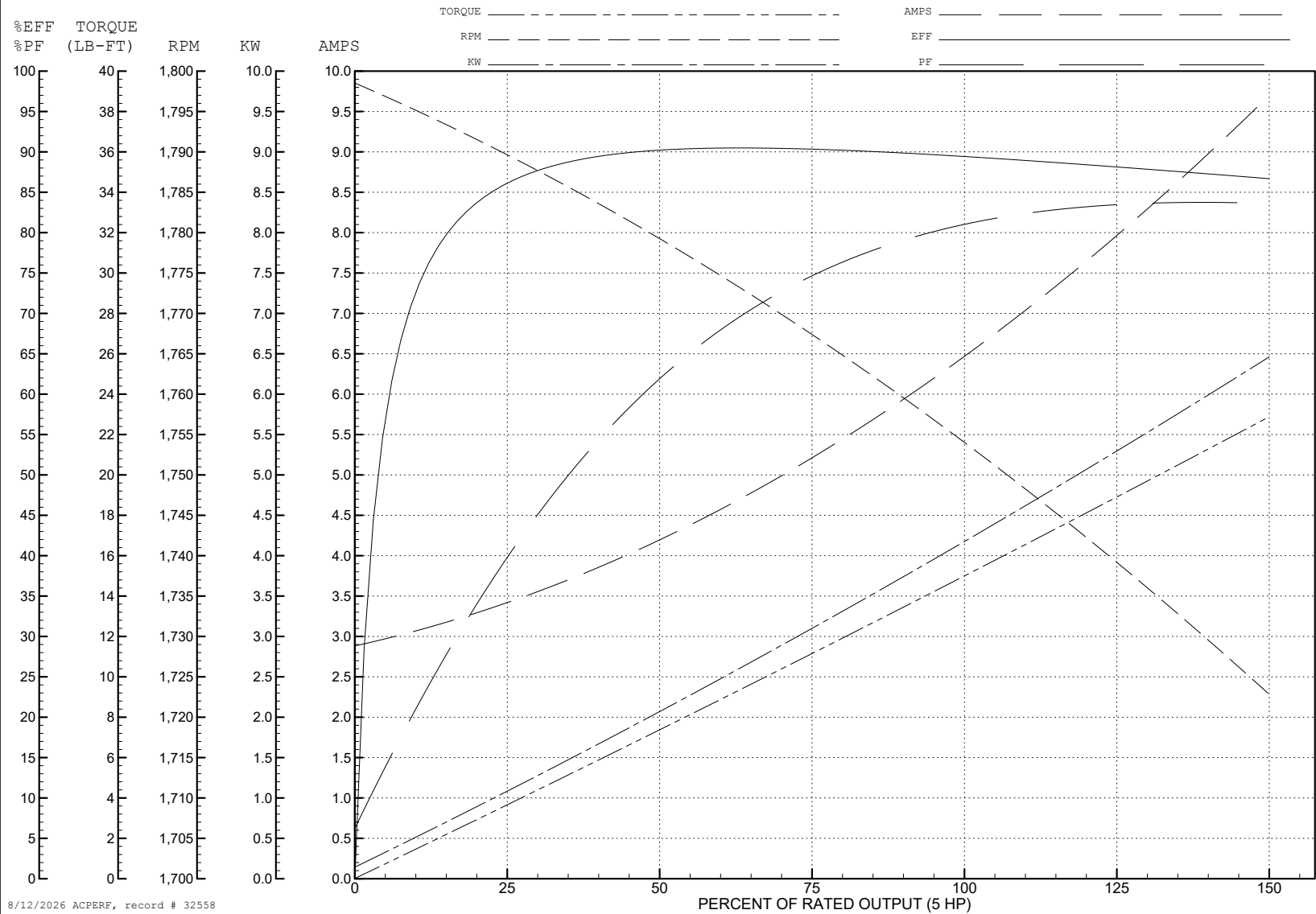
ABB Motors and Mechanical Inc.

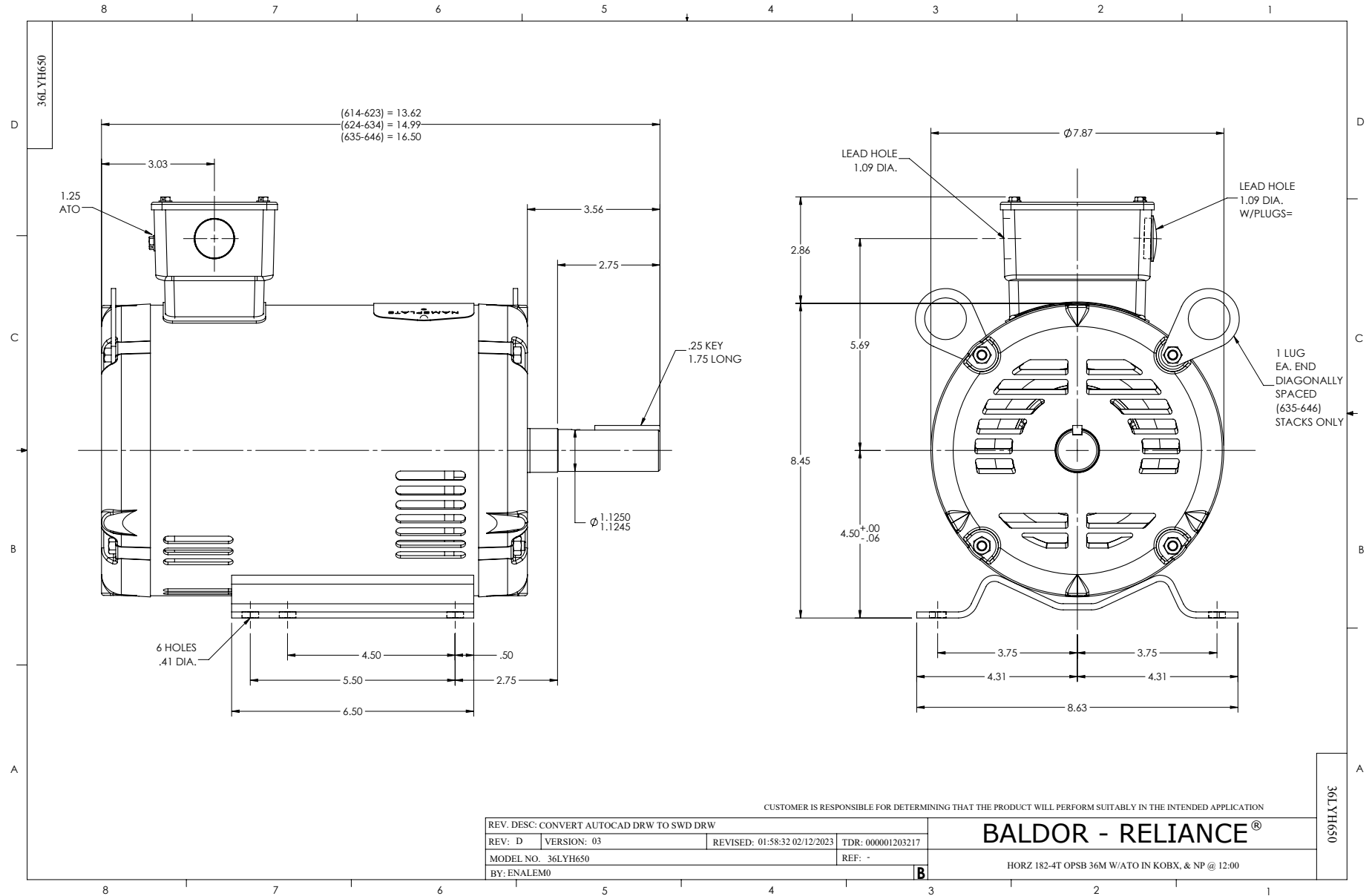
WINDING # 36WGS536

Typical performance - not guaranteed values.

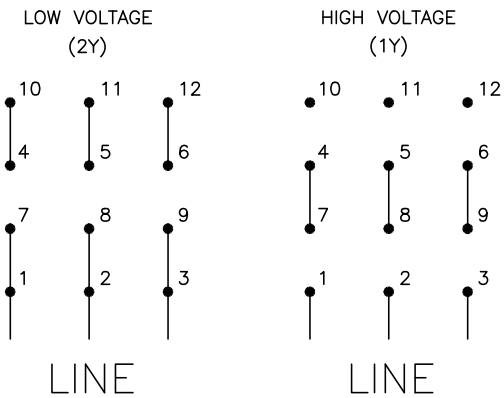
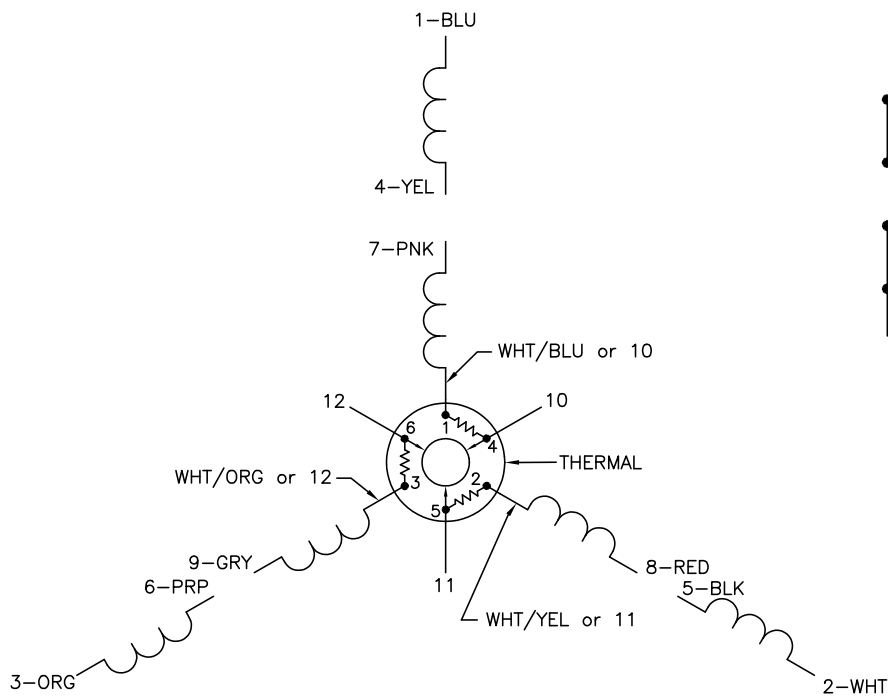
5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

TORQUES (LB-FT) : PO=44.8 PU=25.5 LR=30.1 LRA=44.8





CD0007



- NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
L00000		FILE: AAA00008370	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS

CD0007