

ABB BALDOR RELIANCE III

Customer information packet

EL3612T

5HP, 1735RPM, 1PH, 60HZ, 184T, 3646LC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUS CURUSEEV NEMA PREMIUM (OLD LOGO) C UR US
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	19.100 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AZ
Type	AC
Mech. spec.	36E004
Base	
Status	PRD/A
Elec. spec.	36WGY530
Layout	36LYE004
Eff. date	07-17-2025
CD Diagram	CD0017A02
Poles	04
Leads	2#10 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	19.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.06 IN
Power Factor	97
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	1735 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2116L											
CAT.NO.	EL3612T										
SPEC.	36E004Y530E7										
HP	5										
VOLTS	230										
AMP	19.1										
RPM	1735										
FRAME	184T			HZ	60			PH	1		
SER.F.	1.00	CODE	G	DES	L	CL	F				
NEMA-NOM-EFF	86.5	PF	97								
RATING	40C AMB-CONT										
CC											
DE	6206	ODE	6205								
ENCL	TEFC	SN									

Parts List

Part number	Description	Quantity
SA034405	SA 36E004Y530E7	1.000 ea
RA030433	RA 36E004Y530E7	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	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
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
36GS3000	GASKET, CAPACITOR COVER LEXIDE	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3100A01SP	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 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
HA6362ZP	LIFTING LUG FOR 36 FRAME MOTORS.	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
36FH4009A124	IEC FH W/GRSR,GRILL,NO DIMPLES,PRIMER	1.000 ea
HA3101A40	THRUBOLT 1/4-20 X 12.687	4.000 ea
36CB5005A01	CAPACITOR BOX KIT, 36CB3800Z, OC3060F10,	1.000 ea
SP5172A05	37 TYPE LC TORQ STAT SW LEAD ASSEMBLY	1.000 ea

MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
NP2116L	ALUM SUPER-E UL 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
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data

Record # 11393

Typical performance - not guaranteed values

Winding: 36WGY530-R001			Type: 3646LC		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		15 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		19.1	Breakdown Torque		34.8 LB-FT		
R.P.M.		1735	Pull-up Torque		31.9 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		41.1 LB-FT	
NEMA Design Code		L	KVA Code	G	Starting Current		127 A
Service Factor (S.F.)		1		No-load Current		3.08 A	
NEMA Nom. Eff.		86.5	Power Factor	97	Line-line Res. @ 25°C		0.42 Ω A Ph 0.91 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		86°C	

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	92	96	97	97	97	96
Efficiency	70.6	83.6	86.8	86.6	84.4	80.4
Speed	1784	1771	1755	1737	1716	1687
Line amperes	6.05	9.95	14.3	19.1	24.5	31.1

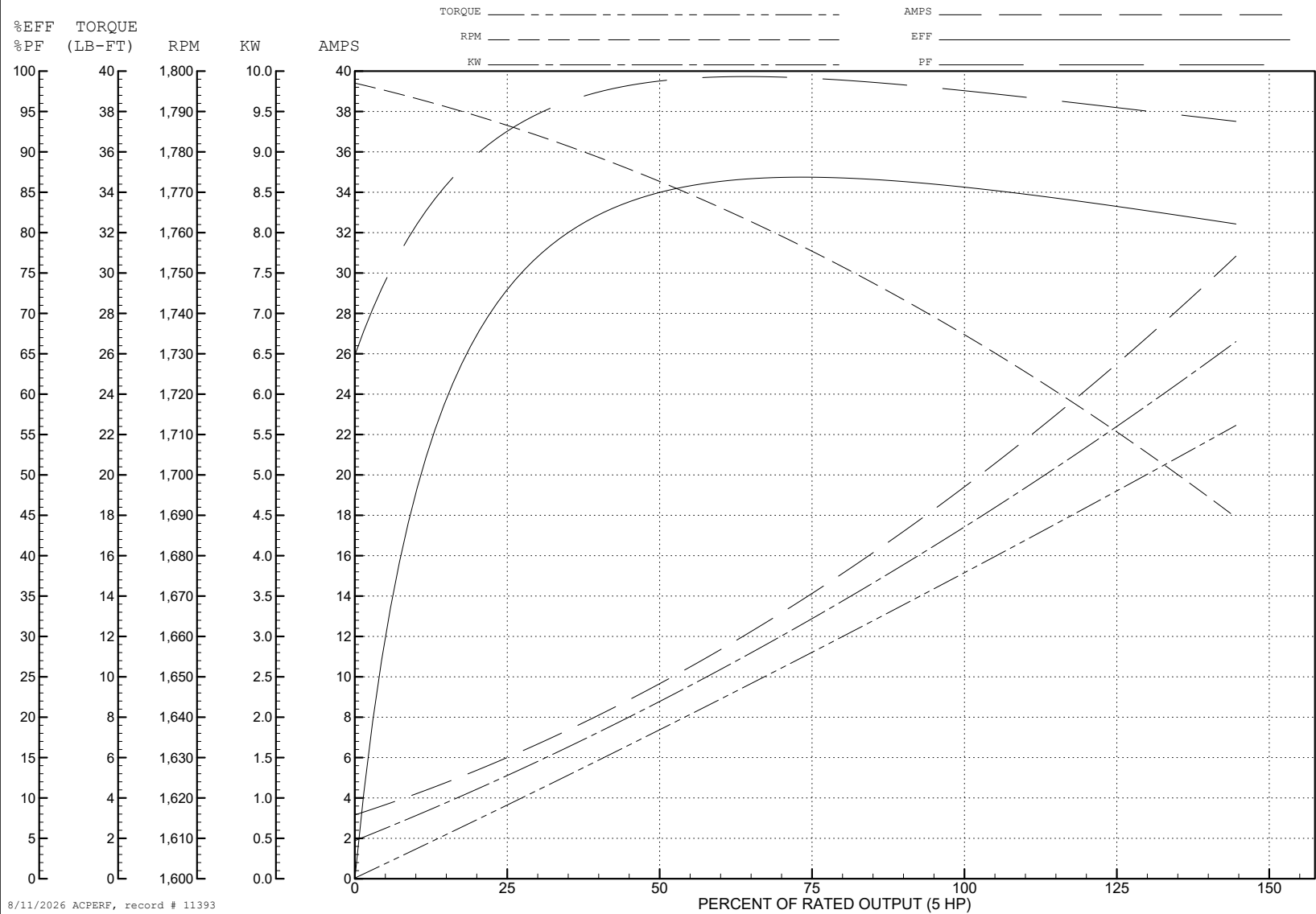
ABB Motors and Mechanical Inc.

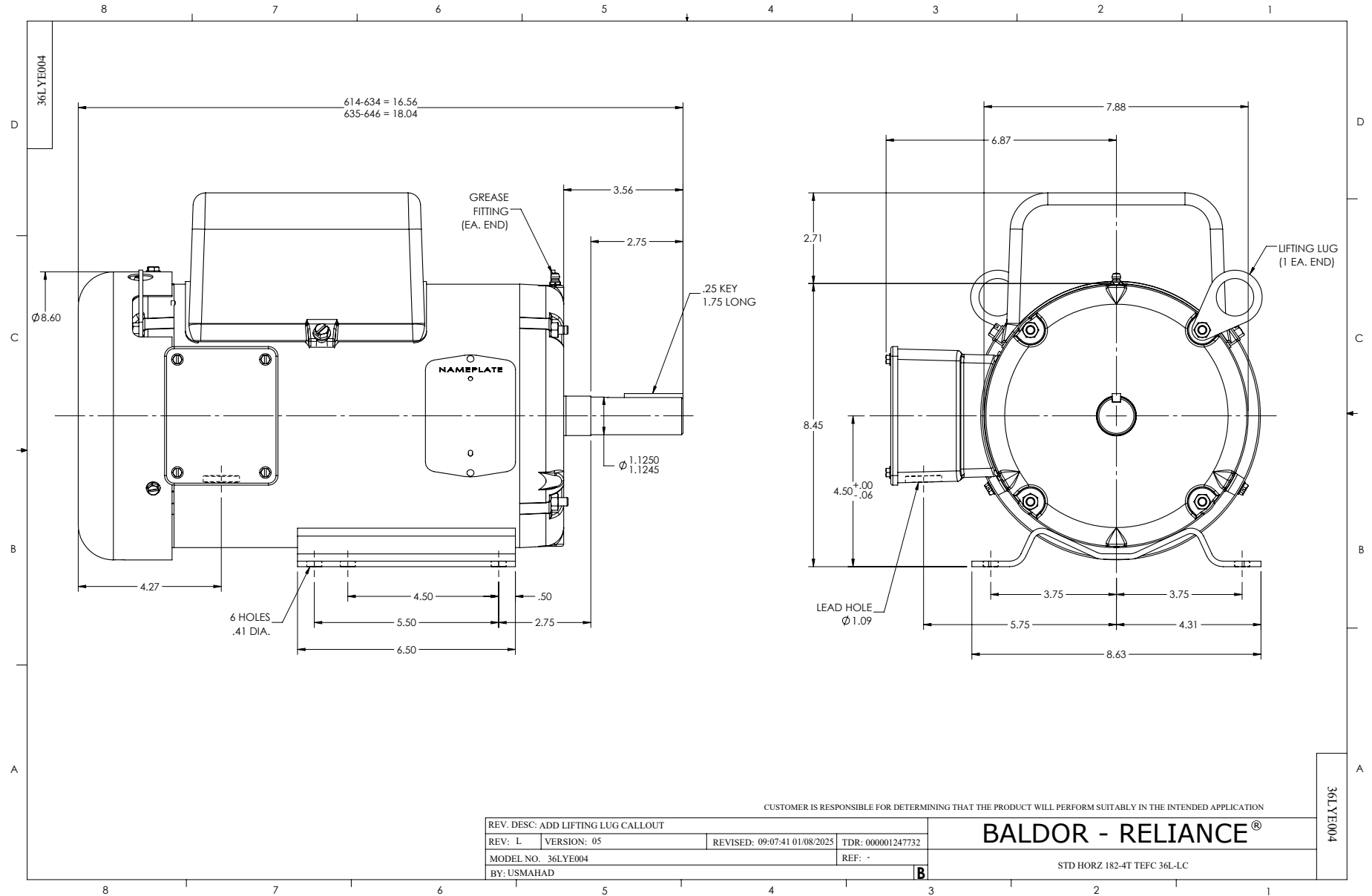
WINDING # 36WGY530

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1735 RPM 230 V 3646LC

TORQUES (LB-FT): PO=34.8 PU=31.9 LR=41.1 LRA=127





CD0017A02

