

ABB BALDOR RELIANCE III

Customer information packet

L1405T

2HP, 1725RPM, 1PH, 60HZ, 182T, 3628L, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	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	12.000 A @ 230.0 V 12.600 A @ 208.0 V 24.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	71.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a

Part Detail

Revision	AJ
Type	AC
Mech. spec.	36D001
Base	
Status	PRD/A
Elec. spec.	36WG0117
Layout	36LYD001
Eff. date	05-09-2024
CD Diagram	CD0001
Poles	04
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.00 IN
Power Factor	68
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	1725 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

NP1256L											
CAT.NO.	L1405T										
SPEC.	36D01-117										
HP	2										
VOLTS	115/230										
AMP	24/12										
RPM	1725										
FRAME	182T			HZ	60				PH	1	
SER.F.	1.15		CODE	J	DES	L		CLASS		F	
NEMA-NOM-EFF	71		PF	68							
RATING	40C AMB-CONT										
CC											
DE	6206			ODE	6205						
ENCL	OPEN		SN								

Parts List

Part number	Description	Quantity
SA034368	SA 36D01-117	1.000 ea
RA030396	RA 36D01-117	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	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
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3205D00	MASTER DE,206 BRG,1.197SH,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	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
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
EC1850A06SP	ELEC CAP 115V 2.0 X 4.3 X	1.000 ea
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
SP5172A09	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea

PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 61432

Typical performance - not guaranteed values

Winding: 36WG0117-R003			Type: 3628L		Enclosure: OPEN	
Nameplate Data			230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		6 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		24/12	Breakdown Torque		16 LB-FT	
R.P.M.		1725	Pull-up Torque		10.5 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		18.3 LB-FT
NEMA Design Code		L	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		55 A	
			No-load Current		8.5 A	
NEMA Nom. Eff.		71	Power Factor		68	
Line-line Res. @ 25°C				0.223 Ω A Ph 0.977 Ω B Ph		
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C
S.F. Amps				Temp. Rise @ S.F. Load		82°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	49	61	70	76	80	74
Efficiency	54.4	68.6	74	76.1	76.3	75.4	76.2
Speed	1786	1774	1761	1746	1730	1711	1736
Line amperes	8.85	9.6	10.7	12.2	14	16.2	13.3

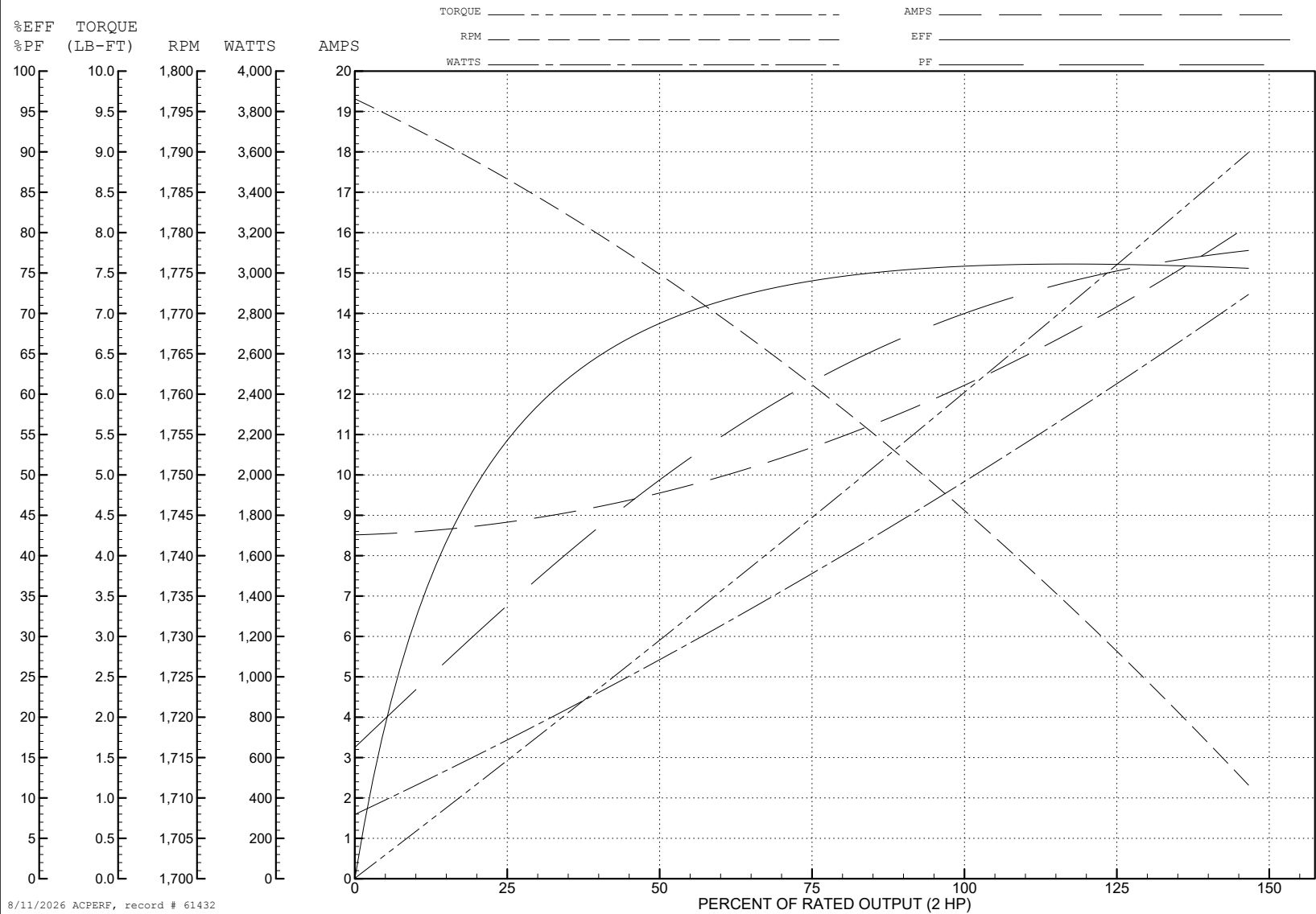
ABB Motors and Mechanical Inc.

WINDING # 36WG0117

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1725 RPM 230 V 3628L

TORQUES (LB-FT): PO=16 PU=10.5 LR=18.3 LRA=55





CD0001

