

ABB BALDOR RELIANCE III

Customer information packet

EL1405T

2HP, 1740RPM, 1PH, 60HZ, 182T, 3623LC, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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, Cap Run
Output @ Frequency	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUS CURUSEEV NEMA PREMIUM (OLD LOGO) C U R U S
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	17.600 A @ 115.0 V 8.800 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AN
Type	AC
Mech. spec.	36G967
Base	
Status	PRD/A
Elec. spec.	36WGY526
Layout	36LYG967
Eff. date	05-01-2024
CD Diagram	CD0055
Poles	04
Leads	6#16
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3623LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.87 IN
Power Factor	90
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	1740 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.	EL1405T								
SPEC.	36G967Y526G1								
HP	2								
VOLTS	115/230								
AMP	17.6/8.8								
RPM	1740								
FRAME	182T		HZ	60		PH	1		
SER.F.	1.15	CODE	J	DES	L	CL	F		
NEMA-NOM-EFF	82.5	PF	90						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPSB	SN							
	SFA 20.4/10.2								

Parts List

Part number	Description	Quantity
SA036067	SA 36G967Y526G1	1.000 ea
RA032094	RA 36G967Y526G1	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
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	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
HA3101A33	THRUBOLT 1/4-20 X 12.000	4.000 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
HA6362ZP	LIFTING LUG FOR 36 FRAME MOTORS.	2.000 ea
36CB5009A01	CAPACITOR BOX KIT, 36CB3800Z, EC1645A06,	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
SP5172A05	37 TYPE LC TORQ STAT SW LEAD ASSEMBLY	1.000 ea
LC0001	CONN LABEL TYPE L, 6 LEAD, DUAL VOLTS, R	1.000 ea
NP2116L	ALUM SUPER-E UL CC	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	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 # 11390

Typical performance - not guaranteed values

Winding: 36WGY526-R001			Type: 3623LC		Enclosure: OPSB			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		2	Full Load Torque		6.1 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		17.6/8.8	Breakdown Torque		13.2 LB-FT			
R.P.M.		1740	Pull-up Torque		9.2 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		14.7 LB-FT		
NEMA Design Code		L	KVA Code	J	Starting Current		62.4 A	
Service Factor (S.F.)		1.15		No-load Current		3.5 A		
NEMA Nom. Eff.		82.5	Power Factor		90	Line-line Res. @ 25°C		1.27 Ω A Ph 0.65 Ω B Ph
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		48°C
S.F. Amps		20.4/10.2		Temp. Rise @ S.F. Load				62°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	72	85	90	92	92	91	92
Efficiency	70.9	81.6	83.9	82.6	79.6	74.3	80.8
Speed	1787	1773	1758	1742	1722	1688	1730
Line amperes	3.46	4.83	6.61	8.6	11.08	17.38	10.1

ABB Motors and Mechanical Inc.

WINDING # 36WGY526

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1740 RPM 230 V 3623LC

TORQUES (LB-FT): PO=13.2 PU=9.2 LR=14.7 LRA=62.4





