

ABB BALDOR RELIANCE III

Customer information packet

UCL345

3-4.5HP, 3450RPM, 1PH, 60HZ, 182Z, 3634L, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	182Z
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	4.500 HP @ 60 HZ 3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	None
Current @ Voltage	22.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
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	22.0 a
Insulation Class	F

Part Detail

Revision	AV
Type	AC
Mech. spec.	36F549
Base	
Status	PRD/A
Elec. spec.	36WG2510
Layout	36LYF549
Eff. date	01-02-2025
CD Diagram	CD0017A01
Poles	02
Leads	2#12 A PH,2#16 B PH 30" LG Y
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	2 @ 12 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.88 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1279L									
CAT.NO.	UCL345								
SPEC.	36F549-2510								
HP	3-4.5 AIR OVER								
VOLTS	230								
AMP	22								
RPM	3450								
FRAME	182Z		HZ	60		PH		1	
SER.F.	1.00		CODE	F	DES	L		CL	F
NEMA-NOM-EFF	74		PF	86					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	OPEN		SN						

NP1263L											
CAT.NO.	UCL345										
SPEC.	36F549-2510										
HP	3-4.5 AIR OVER										
VOLTS	230										
AMP	22										
RPM	3450										
FRAME	182Z			HZ	60			PH	1		
SER.F.	1.00	CODE	F	DES	L	CL	F				
NEMA-NOM-EFF	74	PF	86								
RATING	40C AMB-CONT										
CC											
DE	6206	ODE	6205								
ENCL	OPEN	SN									

AC Induction Motor Performance Data

Record # 10531

Typical performance - not guaranteed values

Winding: 36WG2510-R001				Type: 3634L		Enclosure: OPAO	
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		3-4.5 AIR OVER		Full Load Torque		6.8 LB-FT	
Volts		230		Start Configuration		direct on line	
Full Load Amps		22		Breakdown Torque		18 LB-FT	
R.P.M.		3450		Pull-up Torque		16 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		14 LB-FT	
NEMA Design Code		L	KVA Code	F	Starting Current		115 A
Service Factor (S.F.)		1		No-load Current		9 A	
NEMA Nom. Eff.		74	Power Factor	86	Line-line Res. @ 25°C		0.393 Ω A Ph 1.72 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			

Load Characteristics 230 V, 60 Hz, 4.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	57	74	83	87	89	90
Efficiency	61.1	73.4	77.5	78.5	77.9	76.1
Speed	3565	3536	3504	3469	3428	3380
Line amperes	10.5	13.4	17.1	21.4	26.3	32.1

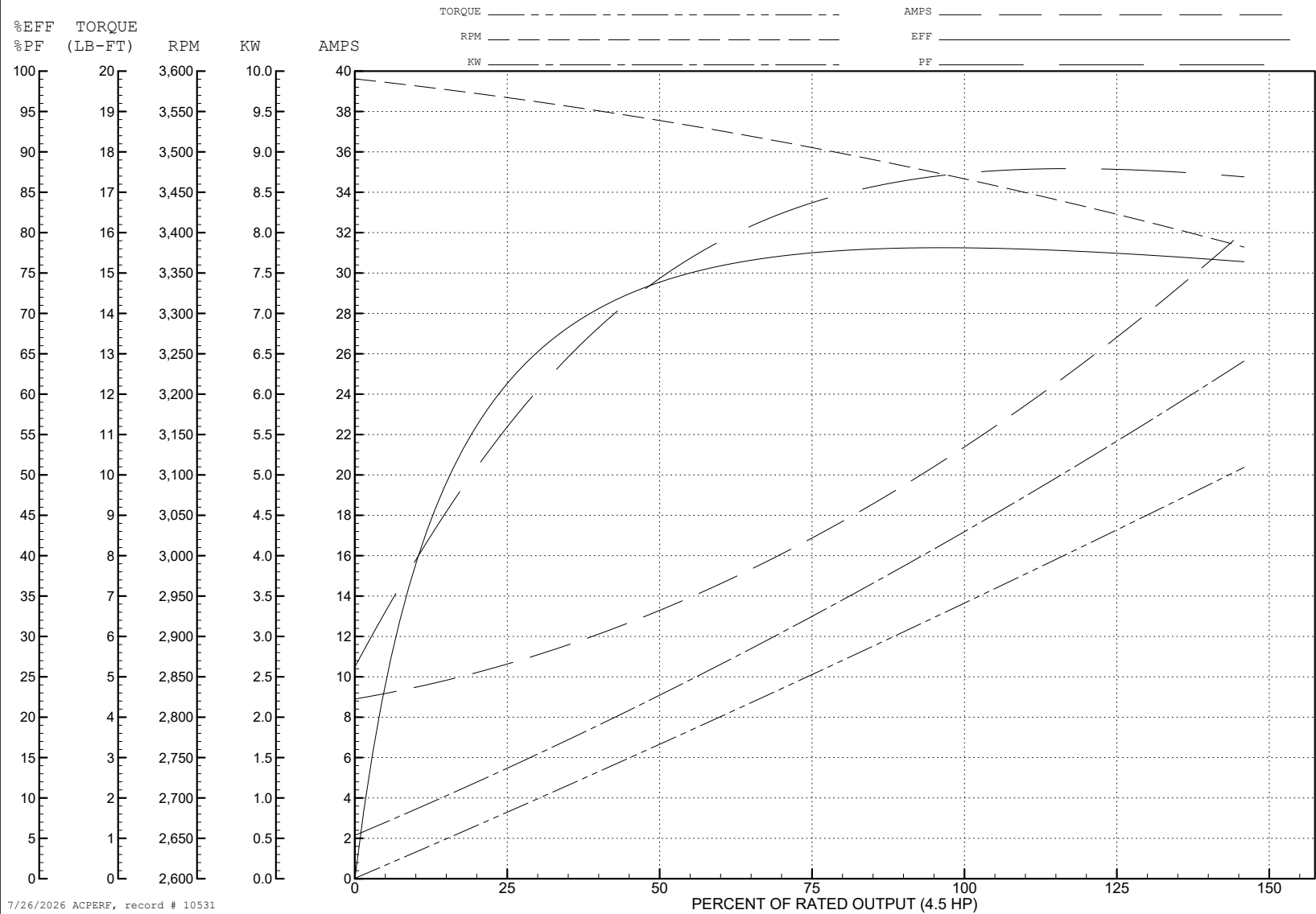
ABB Motors and Mechanical Inc.

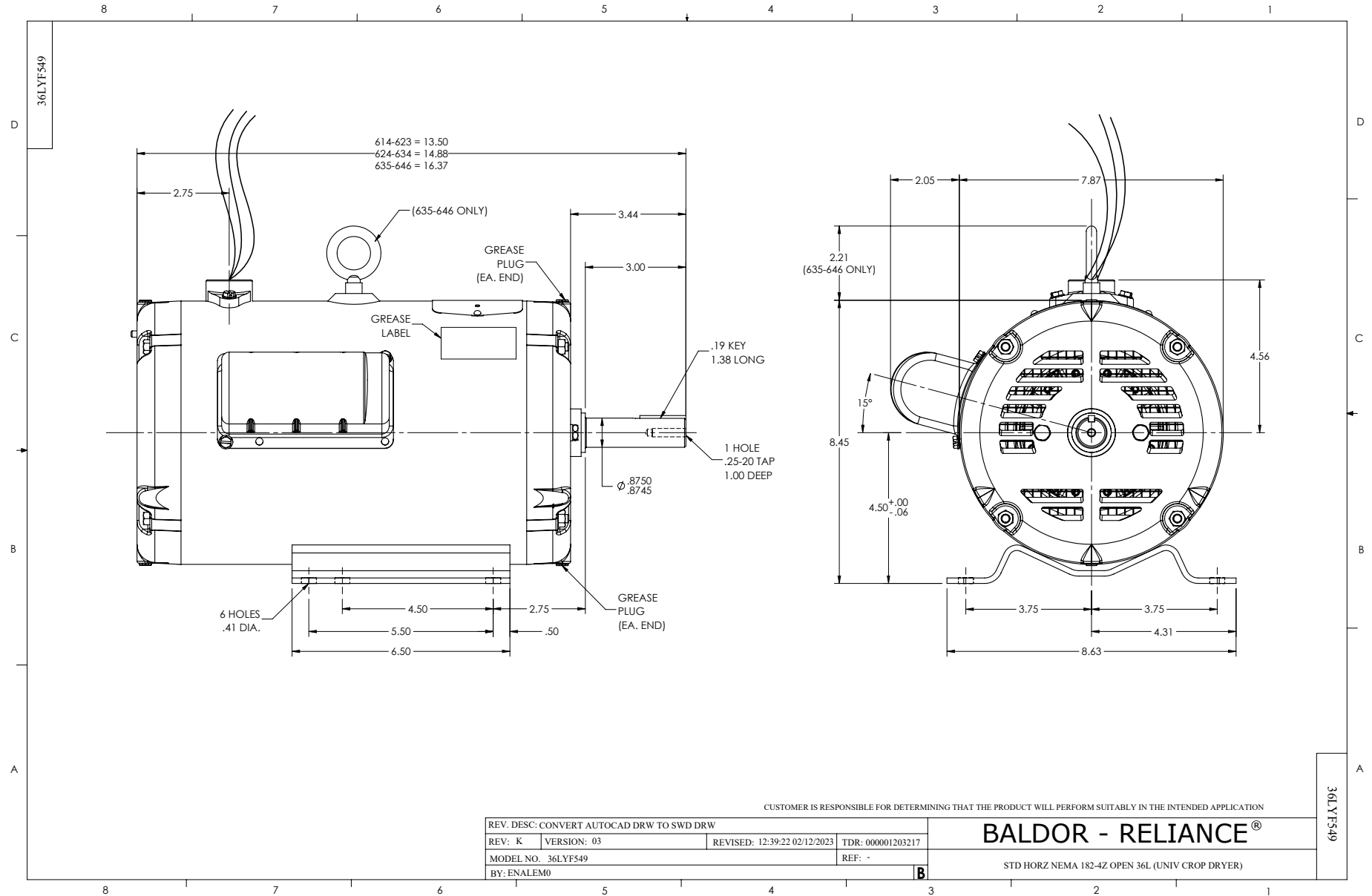
WINDING # 36WG2510

4.5 HP 1 PH 60 HZ 3450 RPM 230 V 3634L

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=18 PU=16 LR=14 LRA=115





CD0017A01

