

ABB BALDOR RELIANCE III

Customer information packet

UCM713

7.5-10HP, 3450RPM, 3PH, 60HZ, 184TZ, 3646M

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	184TZ
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA 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	25.000 A @ 208.0 V 24.000 A @ 230.0 V 12.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AS
Type	AC
Mech. spec.	36F551
Base	
Status	PRD/A
Elec. spec.	36WG0738
Layout	36LYF551
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#14 30" LG Y
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
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	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.	UCM713								
SPEC.	36F551-738								
HP	7.5-10 AIR OVER								
VOLTS	208-230/460								
AMP	25-24/12								
RPM	3450								
FRAME	184TZ	HZ	60		PH	3			
SER.F.	1.00	CODE	J	DES	B	CL	F		
NEMA-NOM-EFF	84	PF	92						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPEN	SN							

NP1263L									
CAT.NO.	UCM713								
SPEC.	36F551-738								
HP	7.5-10 AIR OVER								
VOLTS	208-230/460								
AMP	25-24/12								
RPM	3450								
FRAME	184TZ		HZ	60		PH	3		
SER.F.	1.00	CODE	J	DES	B	CL	F		
NEMA-NOM-EFF	84	PF	92						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPEN	SN							

AC Induction Motor Performance Data

Record # 61460

Typical performance - not guaranteed values

Winding: 36WG0738-R004			Type: 3646M		Enclosure: OPAO		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10 AIR OVER	Full Load Torque		15 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		25-24/12	Breakdown Torque		58 LB-FT		
R.P.M.		3450	Pull-up Torque		50 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		56 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		100 A
Service Factor (S.F.)			1	No-load Current		3 A	
NEMA Nom. Eff.		84	Power Factor	92	Line-line Res. @ 25°C		1.41 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			
				Locked-rotor Power Factor		48.2	
				Rotor inertia		0.207 LB-FT2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	67	86	92	94	93	93
Efficiency	75.7	86.3	84	82.8	82.5	79.8
Speed	3567	3541	3511	3475	3440	3398
Line amperes	4.7	6.4	9.1	12	15	18.3

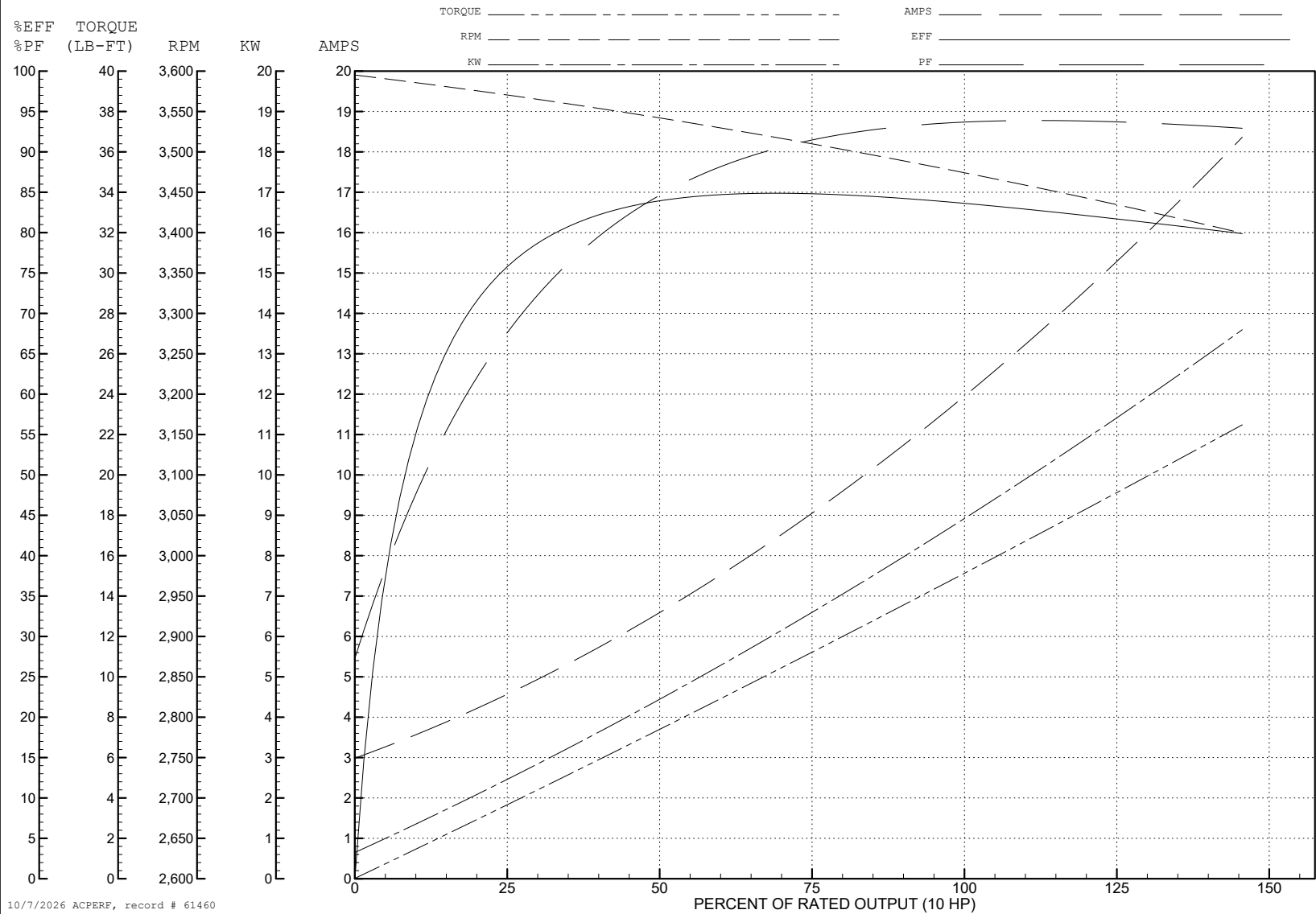
ABB Motors and Mechanical Inc.

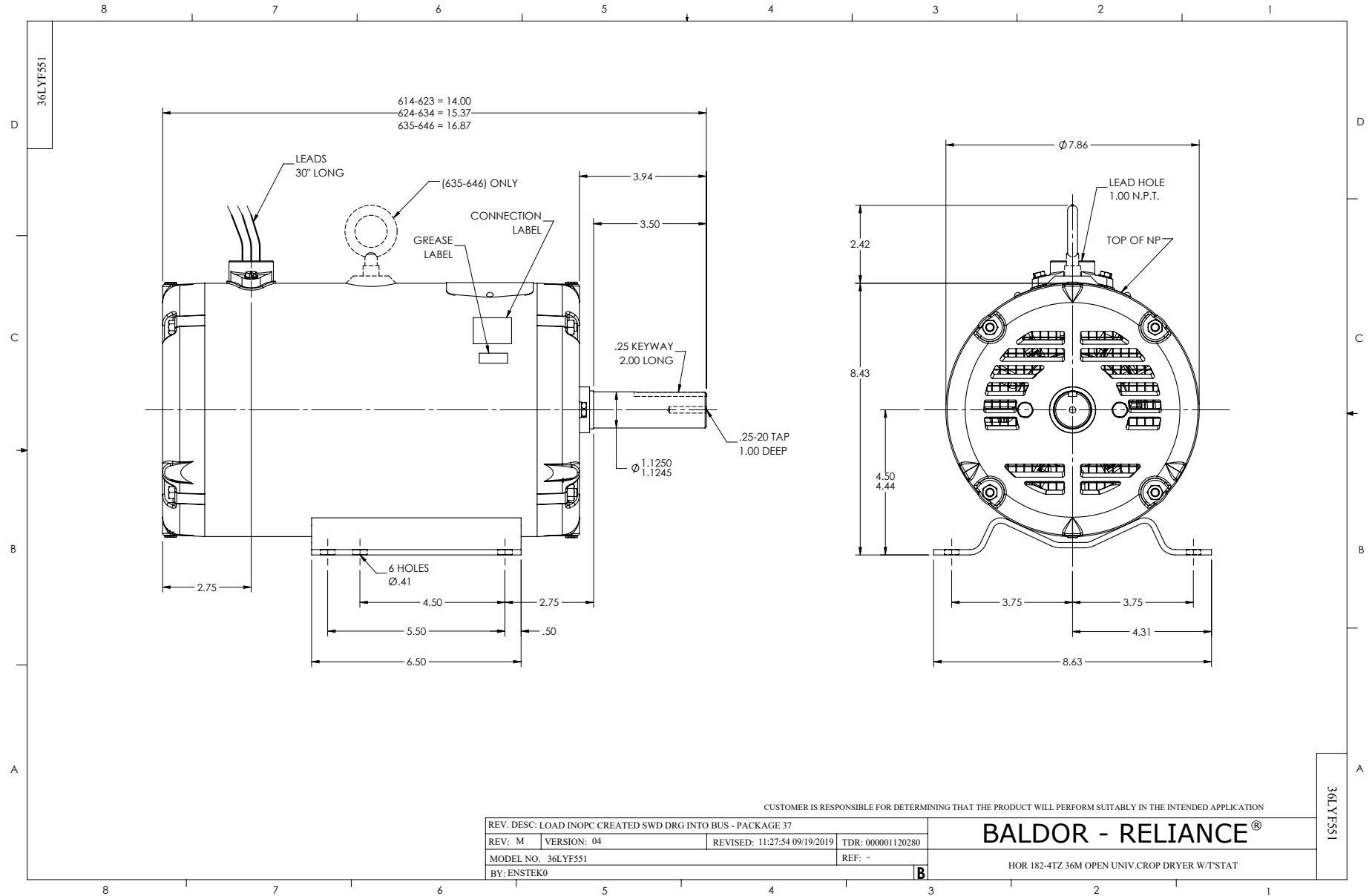
WINDING # 36WG0738

Typical performance - not guaranteed values.

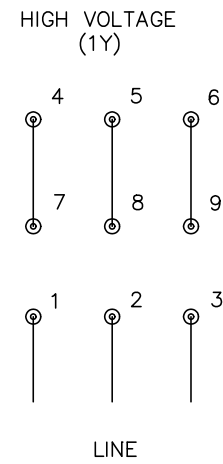
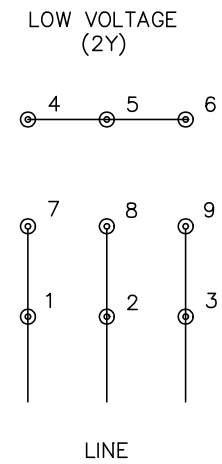
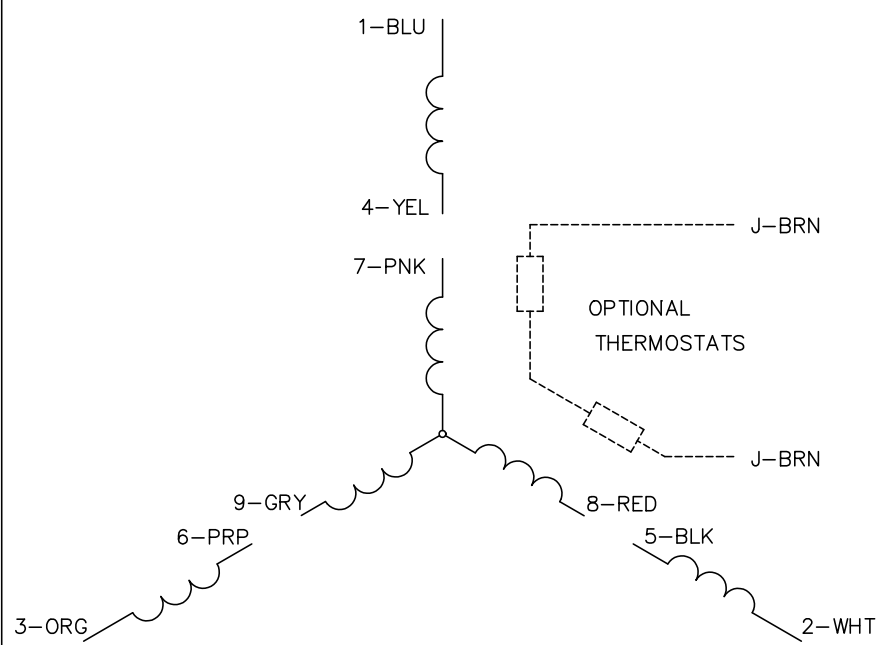
10 HP 3 PH 60 HZ 3450 RPM 460 V 3646M

TORQUES (LB-FT): PO=58 PU=50 LR=56 LRA=100





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005