

ABB BALDOR RELIANCE III

Customer information packet

UCM575

5-7 1/2HP, 3450RPM, 3PH, 60HZ, 184TZ, 3628M, O

Class - None

Division - Not Applicable

Specifications

Enclosure	OPAO
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	7.500 HP @ 60 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 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	19.000 A @ 230.0 V 20.400 A @ 208.0 V 9.500 A @ 460.0 V
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
Heater Indicator	No Heater

Part Detail

Revision	AD
Type	AC
Mech. spec.	36F551
Base	
Status	PRD/A
Elec. spec.	36WG2512
Layout	36LYF551
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#16 30" G Y
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	9.5 a
Insulation Class	F
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	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.38 IN
Power Factor	87
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.	UCM575								
SPEC.	36F551-2512G1								
HP	5-7.5 AIR OVER								
VOLTS	230/460								
AMP	19/9.5								
RPM	3450								
FRAME	184TZ	HZ	60		PH	3			
SER.F.	1.00	CODE	F	DES	-	CL	F		
NEMA-NOM-EFF	84	PF	87						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPAO	SN							

NP1263L									
CAT.NO.	UCM575								
SPEC.	36F551-2512G1								
HP	5-7.5 AIR OVER								
VOLTS	230/460								
AMP	19/9.5								
RPM	3450								
FRAME	184TZ		HZ	60		PH	3		
SER.F.	1.00	CODE	F	DES	-	CL	F		
NEMA-NOM-EFF	84	PF	87						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPAO	SN							

AC Induction Motor Performance Data

Record # 36903

Typical performance - not guaranteed values

Winding: 36WG2512-R004			Type: 3628M		Enclosure: OPAO	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5-7.5 AIR OVER	Full Load Torque		11.4 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		19/9.5	Breakdown Torque		40 LB-FT	
R.P.M.		3450	Pull-up Torque		36.1 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		37 LB-FT	
NEMA Design Code		- KVA Code	Starting Current		51.4 A	
Service Factor (S.F.)		1	No-load Current		4 A	
NEMA Nom. Eff.		84 Power Factor	Line-line Res. @ 25°C		2.17 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			
			Locked-rotor Power Factor		56	
			Rotor inertia		0.126 LB-FT2	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	54	74	83	87	88	89
Efficiency	70.7	80.5	83.4	84	83.9	82.2
Speed	3558	3526	3488	3450	3406	3361
Line amperes	4.68	6.02	7.68	9.55	11.8	14

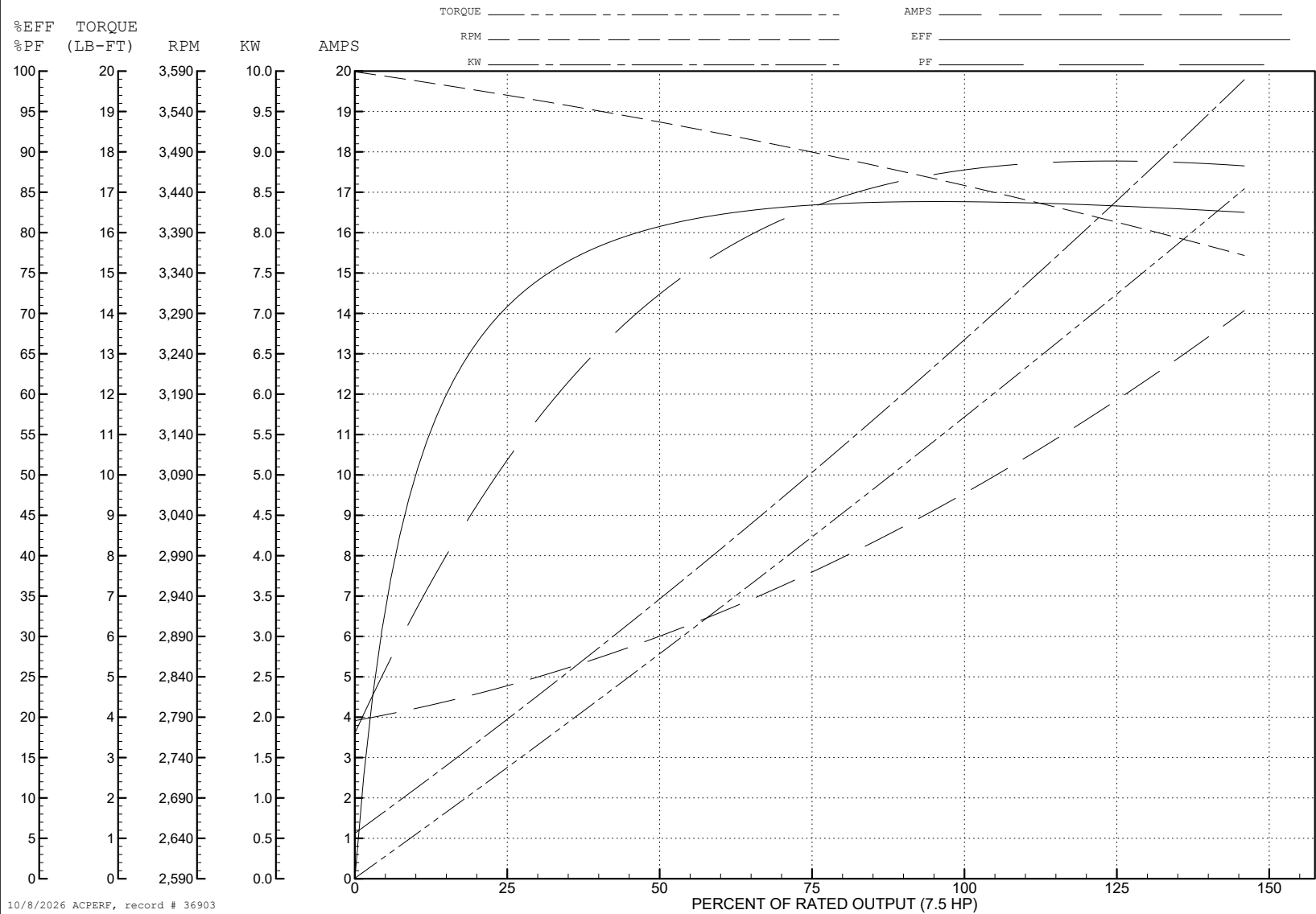
ABB Motors and Mechanical Inc.

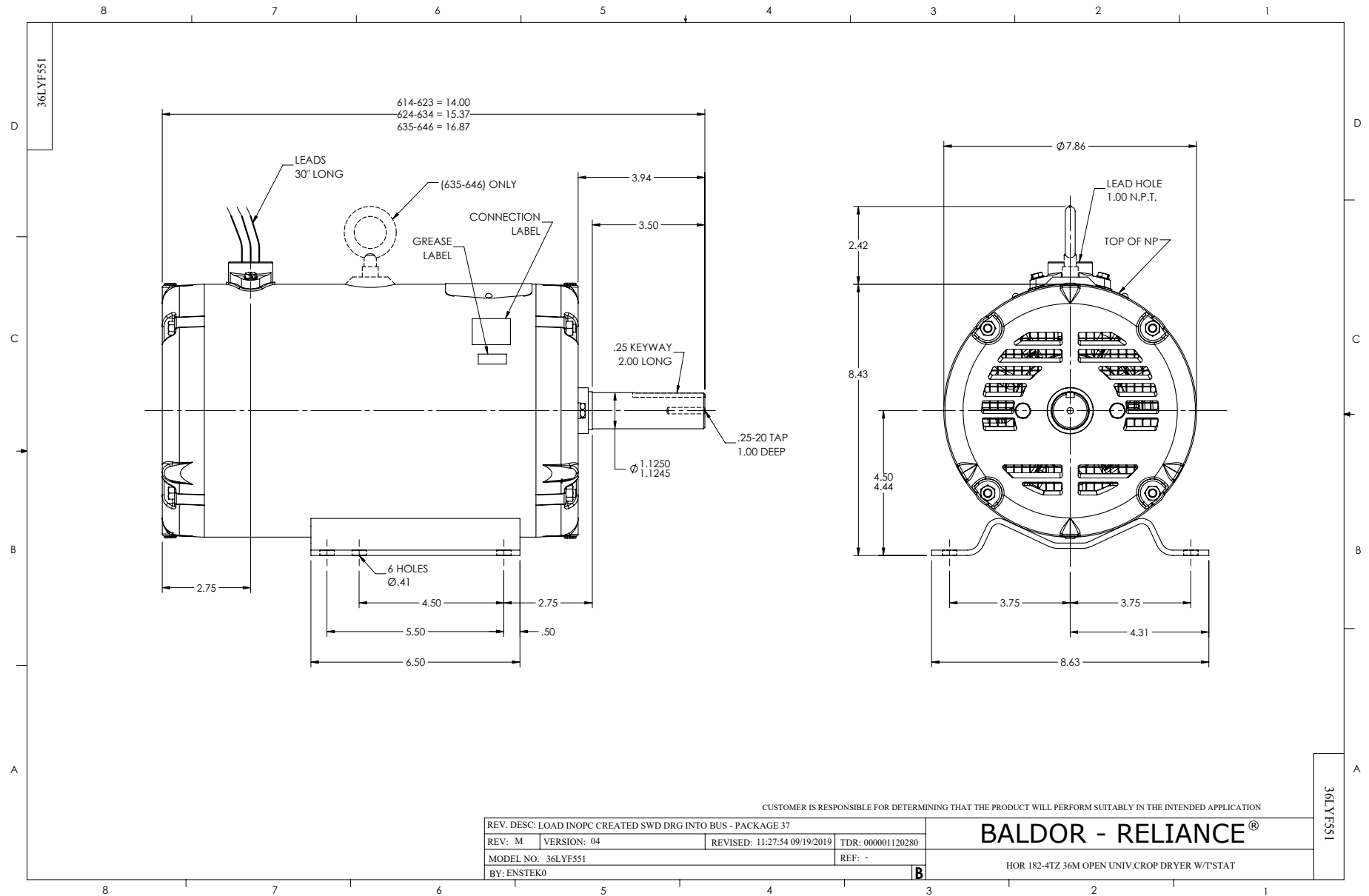
WINDING # 36WG2512

Typical performance - not guaranteed values.

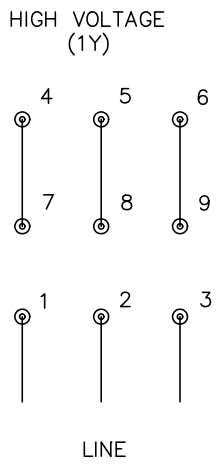
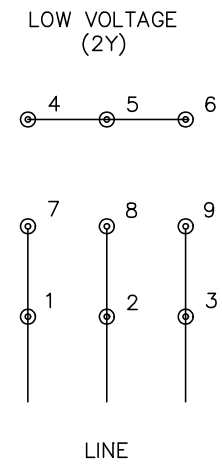
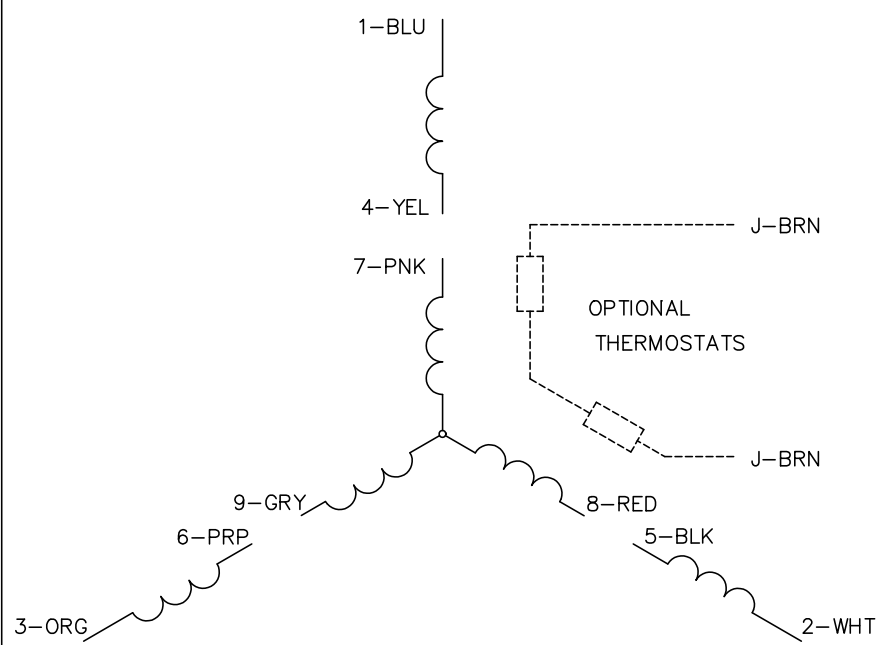
7.5 HP 3 PH 60 HZ 3450 RPM 460 V 3628M

TORQUES (LB-FT): PO=40 PU=36.1 LR=37 LRA=51.4





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