

ABB BALDOR RELIANCE III

Customer information packet

UCC7100

7.5HP, 3450RPM, 1PH, 60HZ, 184TZ, 3640C, OPEN

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	Oil Capacitor Start and Run
Output @ Frequency	7.500 HP @ 60 HZ 10.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	28.000 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
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	28.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AP
Type	AC
Mech. spec.	36F548
Base	
Status	PRD/A
Elec. spec.	36WGW881
Layout	36LYF548
Eff. date	01-02-2025
CD Diagram	CD0127
Poles	02
Leads	2#10 A PH,2#16 B PH 30" LG Y
Proprietary	False
Created date	01-01-0001

KVA Code	D
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640C
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	95
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	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.	UCC7100								
SPEC.	36F548W881								
HP	7.5-10 AIR OVER								
VOLTS	230								
AMP	28-39								
RPM	3450								
FRAME	184TZ	HZ	60		PH	1			
SER.F.	1.00	CODE	D	DES	-	CL	F		
NEMA-NOM-EFF	85.5	PF	95						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPEN	SN							

NP1263L									
CAT.NO.	UCC7100								
SPEC.	36F548W881								
HP	7.5-10 AIR OVER								
VOLTS	230								
AMP	28-39								
RPM	3450								
FRAME	184TZ			HZ	60		PH	1	
SER.F.	1.00	CODE	D	DES	-	CL	F		
NEMA-NOM-EFF	85.5	PF	95						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPEN	SN							

Parts List

Part number	Description	Quantity
SA035079	SA 36F548W881	1.000 ea
RA031106	RA 36F548W881	1.000 ea
OC3035F09SP	CYL OIL CAP 35MFD/370V	2.000 ea
HA6021A01SP	ADAPTOR, MACH	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3204C00	MASTER ODE,205 BRG,GRSR,GRSR	1.000 ea
HA1103A08	RODENT SCREEN, 36 FRAME, OPEN, FRONT END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3205E00	MASTER DE,206 BRG,1.438SH,GRSR,GRSR,LCK	1.000 ea
HA1103A10	RODENT SCREEN, 36 FRAME, OPEN, PULLEY EN	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
10XN2520A20	1/4-20X 1 1/4 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
HW2501E18	KEY, 1/4 SQ X 2.000	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
LB1001	LABEL, GREASE-EXXON POLYREX EM	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
LD5000A45	LEAD ASSY, ML1400DF10 W/#10 RING 36"	1.000 ea
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
MG1025C02	WILKOFASST SG, 787.105, TAN	0.022 ga
MP1002A24	6" X 16" .65 MIL. CLEAR PLASTIC BAG	1.000 ea

LC0127	CONNECTION DIAGRAM	1.000 ea
NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
NP1263L	AUX, GP, ALUM, CC, LASER ETCHED	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
PE-0000004	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 10869

Typical performance - not guaranteed values

Winding: 36WGW881-R001			Type: 3640C		Enclosure: OPAO		
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5-10 AIR OVER		Full Load Torque		15.3 LB-FT	
Volts		230		Start Configuration		direct on line	
Full Load Amps		28-39		Breakdown Torque		30 LB-FT	
R.P.M.		3450		Pull-up Torque		2.3 LB-FT	
Hz		60	Phase	1	Locked-rotor Torque		2.6 LB-FT
NEMA Design Code		- KVA Code		D	Starting Current		187 A
Service Factor (S.F.)		1		No-load Current		7 A	
NEMA Nom. Eff.		85.5	Power Factor	95	Line-line Res. @ 25°C		0.229 Ω A Ph 0.877 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			

Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	87	94	96	96	95	94
Efficiency	72.4	82.3	84.4	83.9	81.7	78
Speed	3564	3529	3490	3445	3390	3319
Line amperes	12.9	21	30.2	40.4	52	66.1

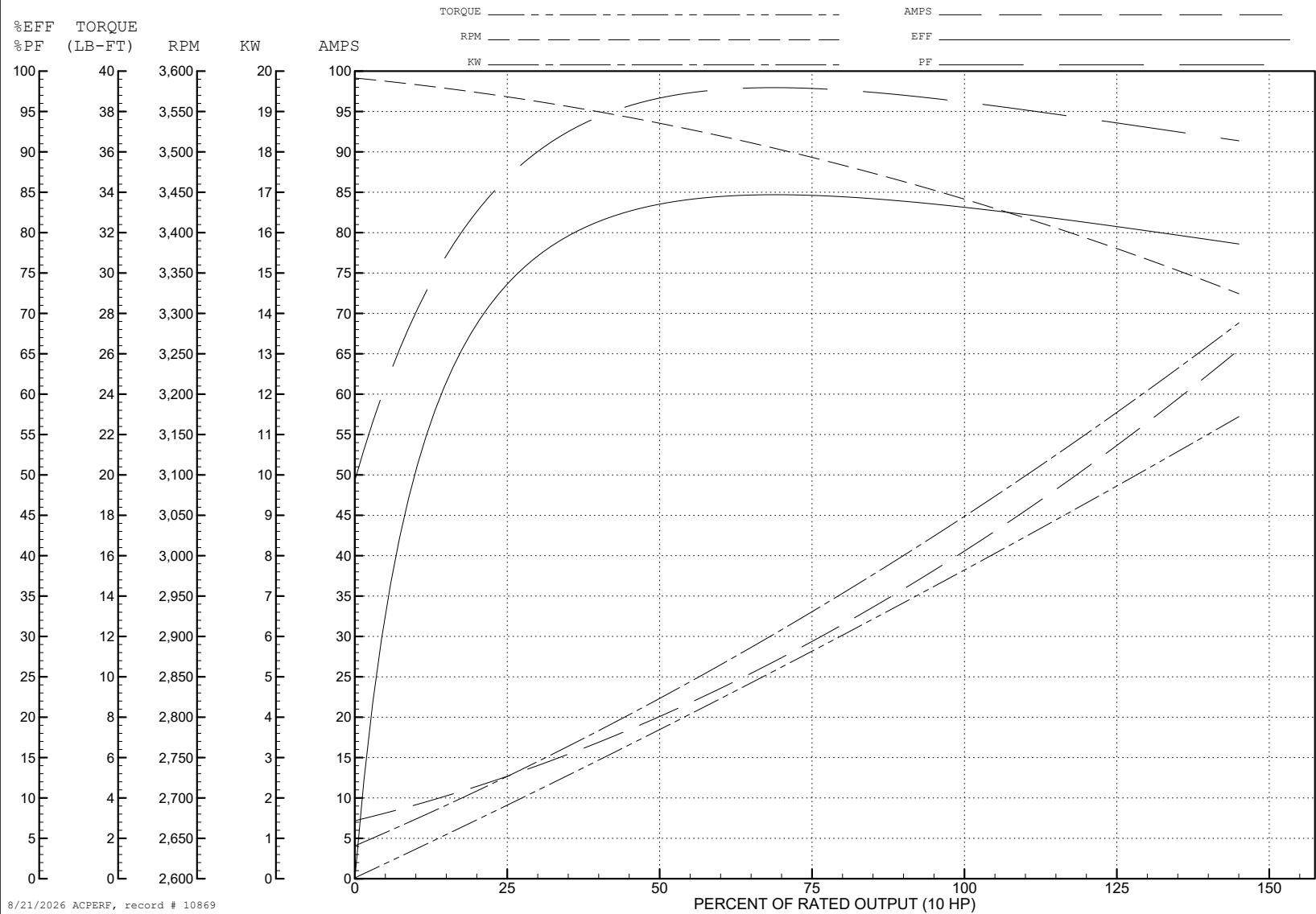
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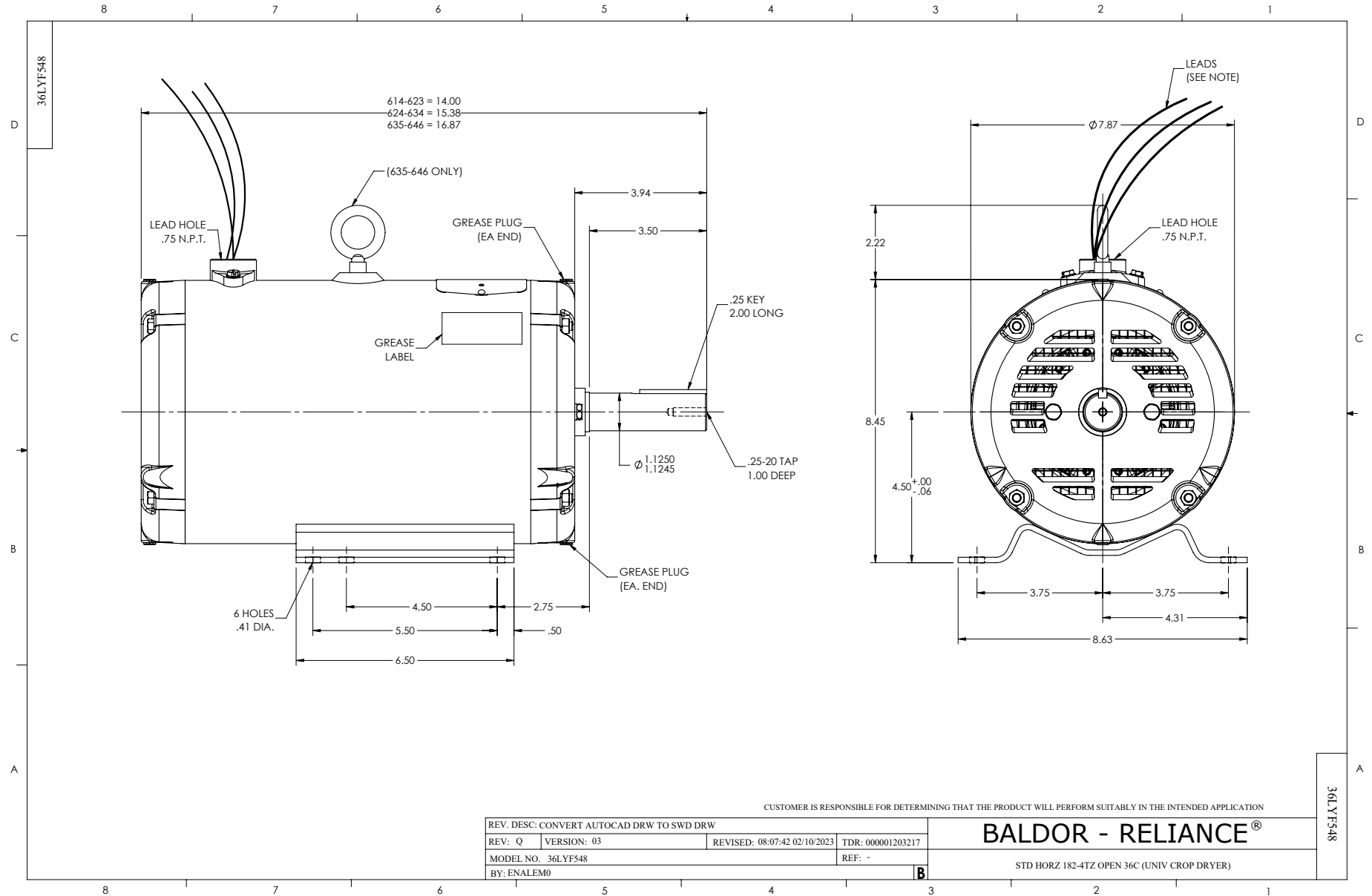
WINDING # 36GW881

Typical performance - not guaranteed values.

10 HP 1 PH 60 HZ 3450 RPM 230 V 3640C

TORQUES (LB-FT): PO=30 PU=2.3 LR=2.6 LRA=187





CD0127

