

ABB BALDOR RELIANCE III

Customer information packet

UCL570

5-7 AIR OVERHP, 3450RPM, 1PH, 60HZ, 182TZ, 36

Class - None

Division - Not Applicable

Specifications

Enclosure	OPAO
Frame	182TZ
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	7.000 HP @ 60 HZ 5.000 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	35.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
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	35.0 a
Insulation Class	F

Part Detail

Revision	Q
Type	AC
Mech. spec.	36M939
Base	
Status	PRD/A
Elec. spec.	36WG3027
Layout	36LYM939
Eff. date	01-02-2025
CD Diagram	CD0017A01
Poles	02
Leads	2#10 A PH,2#16 B PH 30" long Y
Proprietary	False
Created date	02-09-2010

Inverter Code	Not Inverter
KVA Code	M
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	3646L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	82
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.	UCL570								
SPEC.	36M939-3027								
HP	5-7 AIR OVER								
VOLTS	230								
AMP	35								
RPM	3450								
FRAME	182TZ		HZ	60		PH		1	
SER.F.	1.00		CODE	M	DES	L		CL	F
NEMA-NOM-EFF	80		PF	82					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	OPAO		SN						

NP1263L											
CAT.NO.	UCL570										
SPEC.	36M939-3027										
HP	5-7 AIR OVER										
VOLTS	230										
AMP	35										
RPM	3450										
FRAME	182TZ			HZ	60			PH	1		
SER.F.	1.00	CODE	M	DES	L	CL	F				
NEMA-NOM-EFF	80	PF	82								
RATING	40C AMB-CONT										
CC											
DE	6206	ODE	6205								
ENCL	OPAO	SN									

AC Induction Motor Performance Data

Record # 10544

Typical performance - not guaranteed values

Winding: 36WG3027-R001				Type: 3646L		Enclosure: OPAO			
Nameplate Data				230 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		5-7 AIR OVER		Full Load Torque		10.5 LB-FT			
Volts		230		Start Configuration		direct on line			
Full Load Amps		35		Breakdown Torque		33 LB-FT			
R.P.M.		3450		Pull-up Torque		25 LB-FT			
Hz		60 Phase		1		Locked-rotor Torque		26 LB-FT	
NEMA Design Code		L KVA Code		M		Starting Current		195 A	
Service Factor (S.F.)		1		No-load Current		17.7 A			
NEMA Nom. Eff.		80 Power Factor		82		Line-line Res. @ 25°C		0.206 Ω A Ph 1.08 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load					

Load Characteristics 230 V, 60 Hz, 7 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	66	77	83	86	88
Efficiency	61.2	74	78.5	80.1	80.2	79.3
Speed	3574	3552	3528	3503	3474	3442
Line amperes	19.6	23.4	28.4	34.4	41.2	48.9

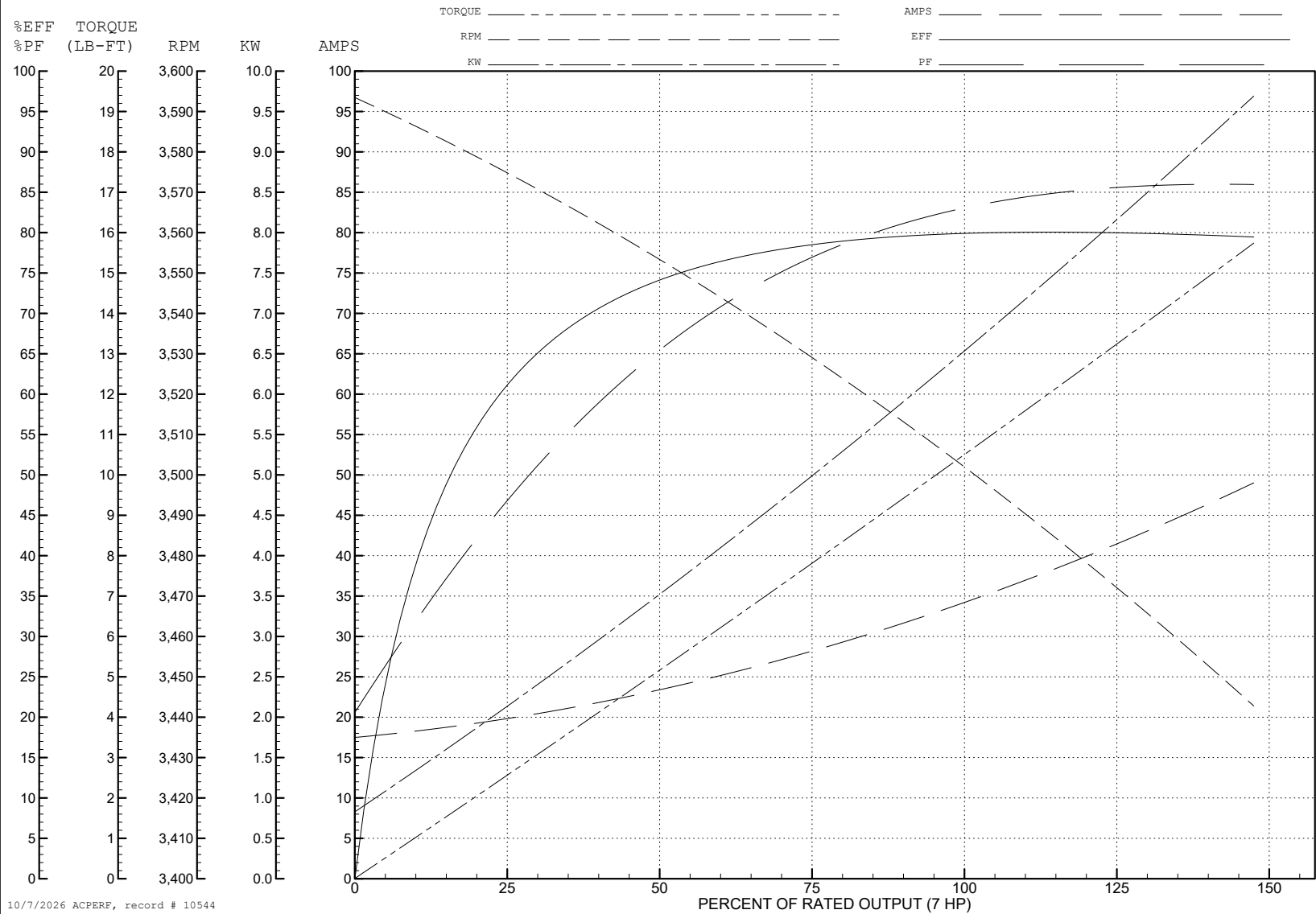
ABB Motors and Mechanical Inc.

WINDING # 36WG3027

Typical performance - not guaranteed values.

7 HP 1 PH 60 HZ 3450 RPM 230 V 3646L

TORQUES (LB-FT) : PO=33 PU=25 LR=26 LRA=195



CD0017A01

