

ABB BALDOR RELIANCE III

Customer information packet

UCL710

7.5-10 AIR OVERHP, 3450RPM, 1PH, 60HZ, 182TZ

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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, Cap 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	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	31.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.0 %
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	31.0 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	36M939
Base	
Status	PRD/A
Elec. spec.	36WGW041
Layout	36LYM939
Eff. date	01-02-2025
CD Diagram	CD0208
Poles	02
Leads	2#10 A PH,3#16 B PH 30" long Y
Proprietary	False
Created date	02-09-2010

Inverter Code	Not Inverter
KVA Code	F
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	3646LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	93
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.	UCL710								
SPEC.	36M939W041G1								
HP	7.5-10 AIR OVER								
VOLTS	230								
AMP	31-42								
RPM	3450								
FRAME	182TZ	HZ	60		PH	1			
SER.F.	1.00	CODE	F	DES	L	CL	F		
NEMA-NOM-EFF	85	PF	93						
RATING	40C AMB-CONT								
CC									
DE	6206	ODE	6205						
ENCL	OPEN	SN							

NP1263L											
CAT.NO.	UCL710										
SPEC.	36M939W041G1										
HP	7.5-10 AIR OVER										
VOLTS	230										
AMP	31-42										
RPM	3450										
FRAME	182TZ			HZ	60			PH	1		
SER.F.	1.00	CODE	F	DES	L	CL	F				
NEMA-NOM-EFF	85	PF	93								
RATING	40C AMB-CONT										
CC											
DE	6206	ODE	6205								
ENCL	OPEN	SN									

AC Induction Motor Performance Data

Record # 10677

Typical performance - not guaranteed values

Winding: 36GW041-R001			Type: 3646LC		Enclosure: OPAO		
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5-10 AIR OVER		Full Load Torque		15 LB-FT	
Volts		230		Start Configuration		direct on line	
Full Load Amps		31-42		Breakdown Torque		36 LB-FT	
R.P.M.		3450		Pull-up Torque		20 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		22 LB-FT	
NEMA Design Code		L	KVA Code	F	Starting Current		210 A
Service Factor (S.F.)		1		No-load Current		8.4 A	
NEMA Nom. Eff.		85	Power Factor	93	Line-line Res. @ 25°C		0.206 Ω A Ph 1.09 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	82	91	94	95	94	94
Efficiency	71	81.4	84.3	84.6	83.5	81.5
Speed	3573	3549	3522	3492	3457	3414
Line amperes	13.97	21.8	30.8	40.6	51.4	63.8

ABB Motors and Mechanical Inc.

WINDING # 36WG041

Typical performance - not guaranteed values.

10 HP 1 PH 60 HZ 3450 RPM 230 V 3646LC

TORQUES (LB-FT) : PO=36 PU=20 LR=22 LRA=210





