

ABB BALDOR RELIANCE III

Customer information packet

EL1410T

5HP, 1735RPM, 1PH, 60HZ, 184T, 3646LC, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	184T
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	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUS CURUSEEV NEMA PREMIUM (OLD LOGO) C UR US
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	19.100 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	AS
Type	AC
Mech. spec.	36H982
Base	
Status	PRD/A
Elec. spec.	36WGY585
Layout	36LYH982
Eff. date	07-21-2025
CD Diagram	CD0017A02
Poles	04
Leads	2#10 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	19.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
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	4
Overall Length	18.00 IN
Power Factor	97
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	1735 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2116L									
CAT.NO.	EL1410T								
SPEC.	36H982Y585G1								
HP	5								
VOLTS	230								
AMP	19.1								
RPM	1735								
FRAME	184T			HZ	60			PH	1
SER.F.	1.15		CODE	G		DES	L	CL	F
NEMA-NOM-EFF	86.5		PF	97					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	OPSB		SN						

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 11418

Typical performance - not guaranteed values

Winding: 36WGY585-R001			Type: 3646LC		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		15 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		19.1	Breakdown Torque		37 LB-FT		
R.P.M.		1735	Pull-up Torque		27 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		42 LB-FT	
NEMA Design Code		L	KVA Code	G	Starting Current		129 A
Service Factor (S.F.)		1.15		No-load Current		3.4 A	
NEMA Nom. Eff.		86.5	Power Factor	97	Line-line Res. @ 25°C		0.42 Ω A Ph 0.89 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		72°C	
S.F. Amps				Temp. Rise @ S.F. Load		110°C	

Load Characteristics 230 V, 60 Hz, 5 HP

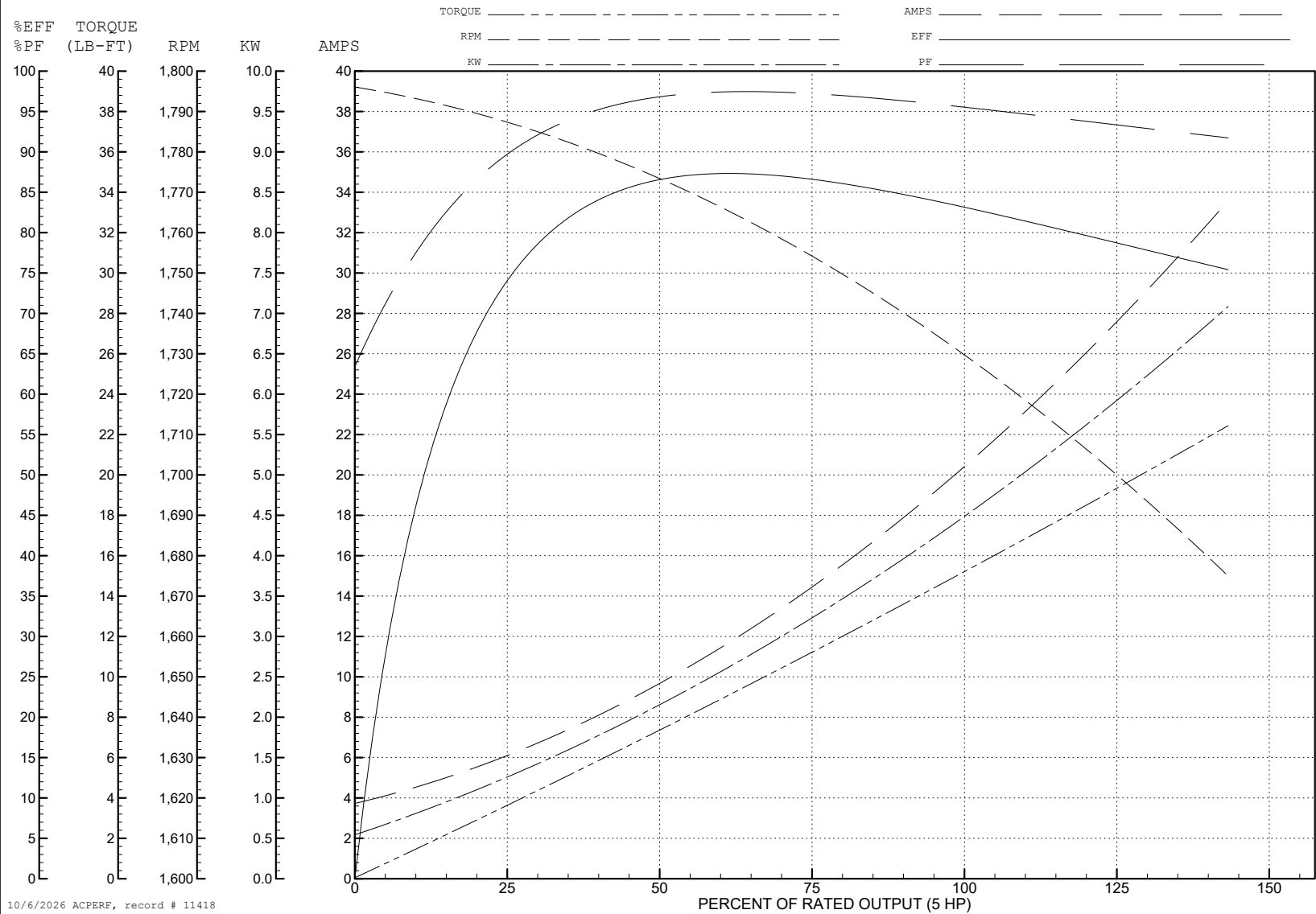
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	89	95	96	96	96	95	96
Efficiency	69.9	83	86.6	86	79.8	74.6	82.3
Speed	1784	1770	1754	1735	1706	1672	1718
Line amperes	6.4	10.3	14.5	19.6	26.3	34	23.62

ABB Motors and Mechanical Inc.

WINDING # 36WGY585

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1735 RPM 230 V 3646LC
TORQUES (LB-FT) : PO=37 PU=27 LR=42 LRA=129





CD0017A02

