

ABB BALDOR RELIANCE III

Customer information packet

WCL1511T

10HP, 3450RPM, 1PH, 60HZ, 215TCZ, 3740L, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	215TCZ
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	10.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	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	46.000 A @ 230.0 V 48.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	83.0 %
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	46.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AZ
Type	AC
Mech. spec.	37E284
Base	
Status	PRD/A
Elec. spec.	37WGX047
Layout	37LYE284
Eff. date	06-09-2025
CD Diagram	CD0017A01
Poles	02
Leads	2#8 A PH,2#14 B PH
Proprietary	False
Created date	01-01-0001

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 8 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.38 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	WCL1511T								
SPEC.	37E284X47								
HP	10								
VOLTS	230								
AMP	46								
RPM	3450								
FRAME	215TCZ		HZ	60			PH	1	
SER.F.	1.15		CODE	G	DES	L	CLASS	F	
NEMA-NOM-EFF	83		PF	86					
RATING	40C AMB-CONT								
CC									
DE	6309		ODE	6206					
ENCL	OPEN		SN						

AC Induction Motor Performance Data

Record # 11971

Typical performance - not guaranteed values

Winding: 37WGX047-R001			Type: 3740L		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10	Full Load Torque		15 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		46	Breakdown Torque		46.4 LB-FT		
R.P.M.		3450	Pull-up Torque		27.6 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		30.6 LB-FT	
NEMA Design Code		L	KVA Code	G	Starting Current		280 A
Service Factor (S.F.)		1.15		No-load Current		19.3 A	
NEMA Nom. Eff.		83	Power Factor	86	Line-line Res. @ 25°C		0.163 Ω A Ph 0.728 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		100°C	
S.F. Amps				Temp. Rise @ S.F. Load		115°C	

Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	72	82	86	88	87	87
Efficiency	63	79.3	81.1	83.7	82.8	80.7	83.2
Speed	3587	3570	3552	3536	3512	3482	3522
Line amperes	23.5	29	37.2	45.5	55.6	68.6	51.6

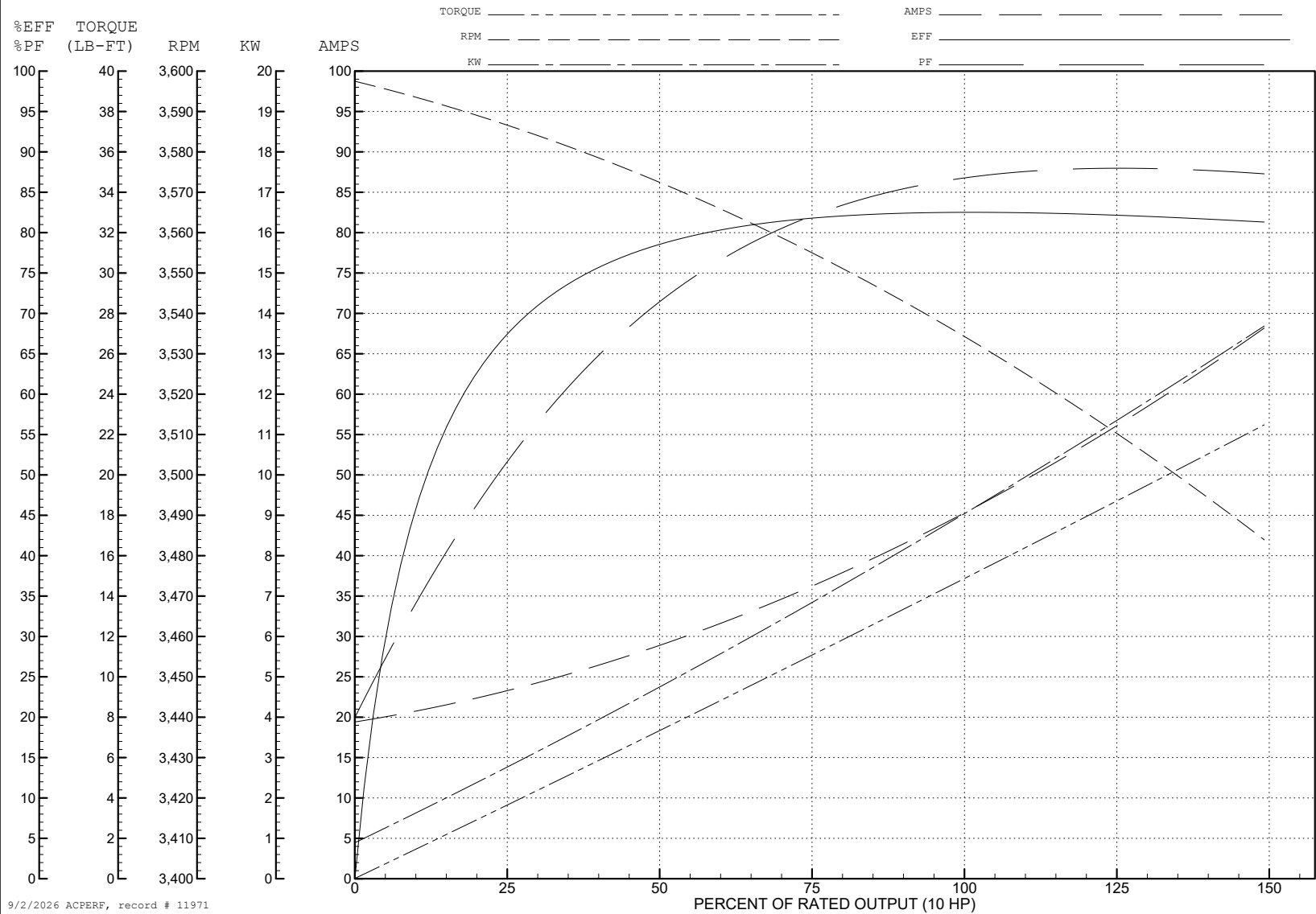
ABB Motors and Mechanical Inc.

WINDING # 37WGX047

Typical performance - not guaranteed values.

10 HP 1 PH 60 HZ 3450 RPM 230 V 3740L

TORQUES (LB-FT): PO=46.4 PU=27.6 LR=30.6 LRA=280



CD0017A01

