

ABB BALDOR RELIANCE III

Customer information packet

CXL14222T

2HP, 3450RPM, 1PH, 60HZ, 143TC, 3540L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UL
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	10.500 A @ 230.0 V 11.500 A @ 208.0 V 21.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGA0039
Layout	35LYS818
Eff. date	05-28-2024
CD Diagram	CD0001
Poles	02/02
Leads	4#14 A PHAS,2#18 B PHAS
Proprietary	False
Created date	04-22-2021

High Voltage Full Load Amps	10.5 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.48 IN
Power Factor	77
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1426XPSL									
NO.		CC							
SER.									
SPEC.	35-0000-1106								
CAT.NO.	CXL14222T								
HP	2		T. CODE	T3C					
VOLTS	115/208-230								
AMPS	21/11.5-10.5								
RPM	3450								
HZ	60		PH	1		CL	F		
SER.F.	1.15		DES	L		CODE	J		
RATING	40C AMB-CONT								
FRAME	143TC		NEMA-NOM-EFF					75.5	
		PF	77						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 23177

Typical performance - not guaranteed values

Winding: 35WGR422-R001		Type: 3540L	Enclosure: TEFC
Nameplate Data		230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	3 LB-FT
Volts	115/208-230	Start Configuration	direct on line
Full Load Amps	22/11.5-11	Breakdown Torque	10.2 LB-FT
R.P.M.	3450	Pull-up Torque	3.28 LB-FT
Hz	60 Phase	Locked-rotor Torque	5.58 LB-FT
NEMA Design Code	L KVA Code	Starting Current	77.3 A
Service Factor (S.F.)	1.15	No-load Current	6.3 A
NEMA Nom. Eff.	75.5 Power Factor	Line-line Res. @ 25°C	0.76 Ω A Ph 1.28 Ω B Ph
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	68°C
S.F. Amps		Temp. Rise @ S.F. Load	77°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	58	70	77	81	84	79
Efficiency	59.1	70.6	74.3	76.2	76.3	74.8	76.3
Speed	3570	3550	3528	3504	3476	3444	3487
Line amperes	6.9	8	9.4	11.1	13	15.2	12.24

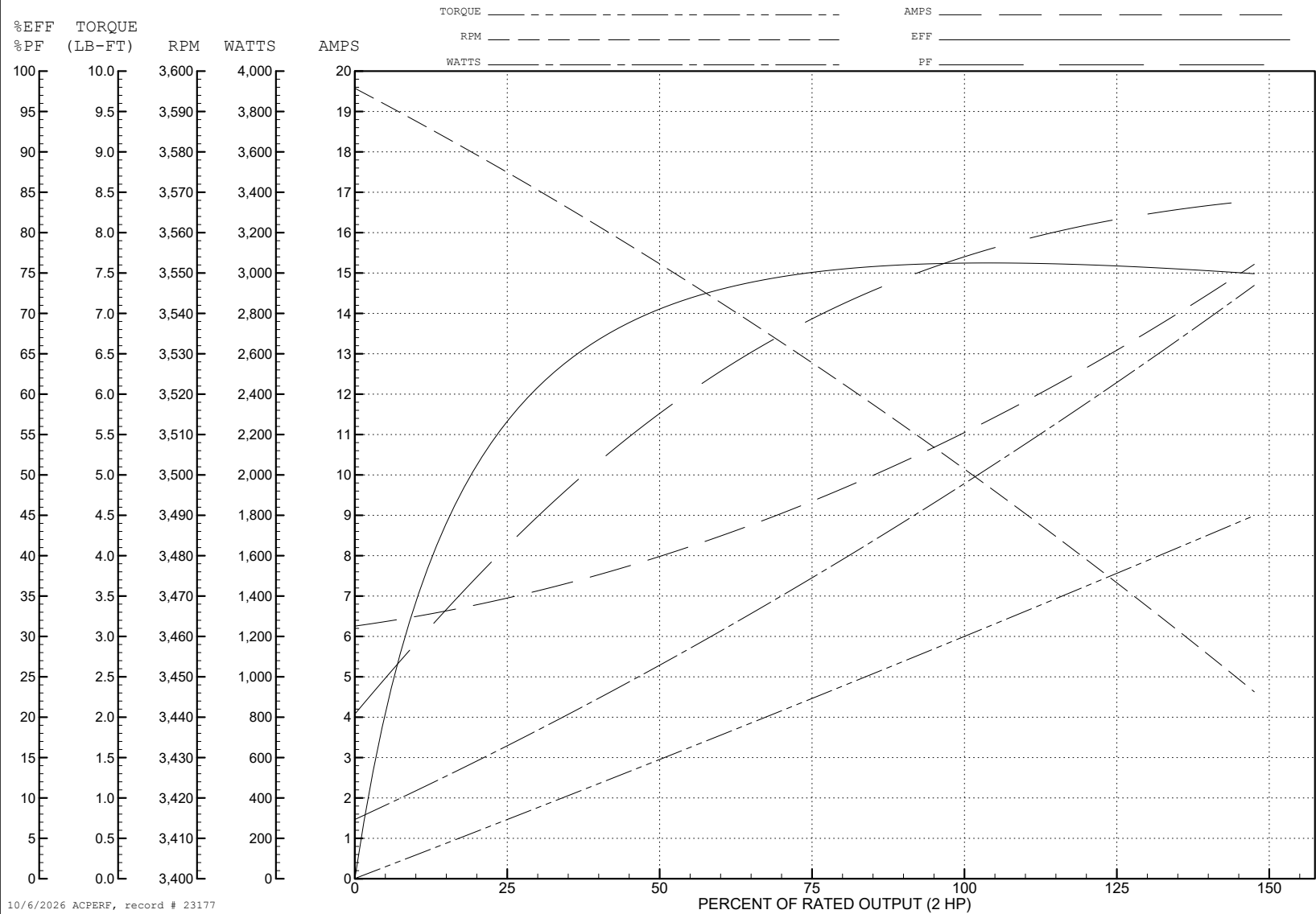
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WINDING # 35WGR422

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3450 RPM 230 V 3540L

TORQUES (LB-FT): PO=10.2 PU=3.28 LR=5.58 LRA=77.3



AC Induction Motor Performance Data

Record # 88045

Typical performance - not guaranteed values

Winding: 35WGA0039-R001			Type: 3540L		Enclosure: XPFC		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		2	Full Load Torque		3.01 LB-FT		
Volts		115/208-230	Start Configuration		Unknown		
Full Load Amps		21/11.5-10.5	Breakdown Torque		8.8 LB-FT		
R.P.M.		3450	Pull-up Torque		3 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		6.3 LB-FT	
NEMA Design Code		L	KVA Code	J	Starting Current		131 A
Service Factor (S.F.)		1.15		No-load Current		9.68 A	
NEMA Nom. Eff.		75.5	Power Factor	77	Line-line Res. @ 25°C		0.192 Ω A Ph 1.53 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C	
S.F. Amps		23.3/12.9-11.6		Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		68.4	
				Rotor inertia		0.111 lb-ft²	

Load Characteristics 115 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	64	75	80	83	85	82
Efficiency	64.7	74.6	77.1	78.2	77.6	75.4	77.8
Speed	3568	3545	3520	3492	3459	3421	3472
Line amperes	11.18	13.77	16.94	20.7	24.86	29.71	23.2

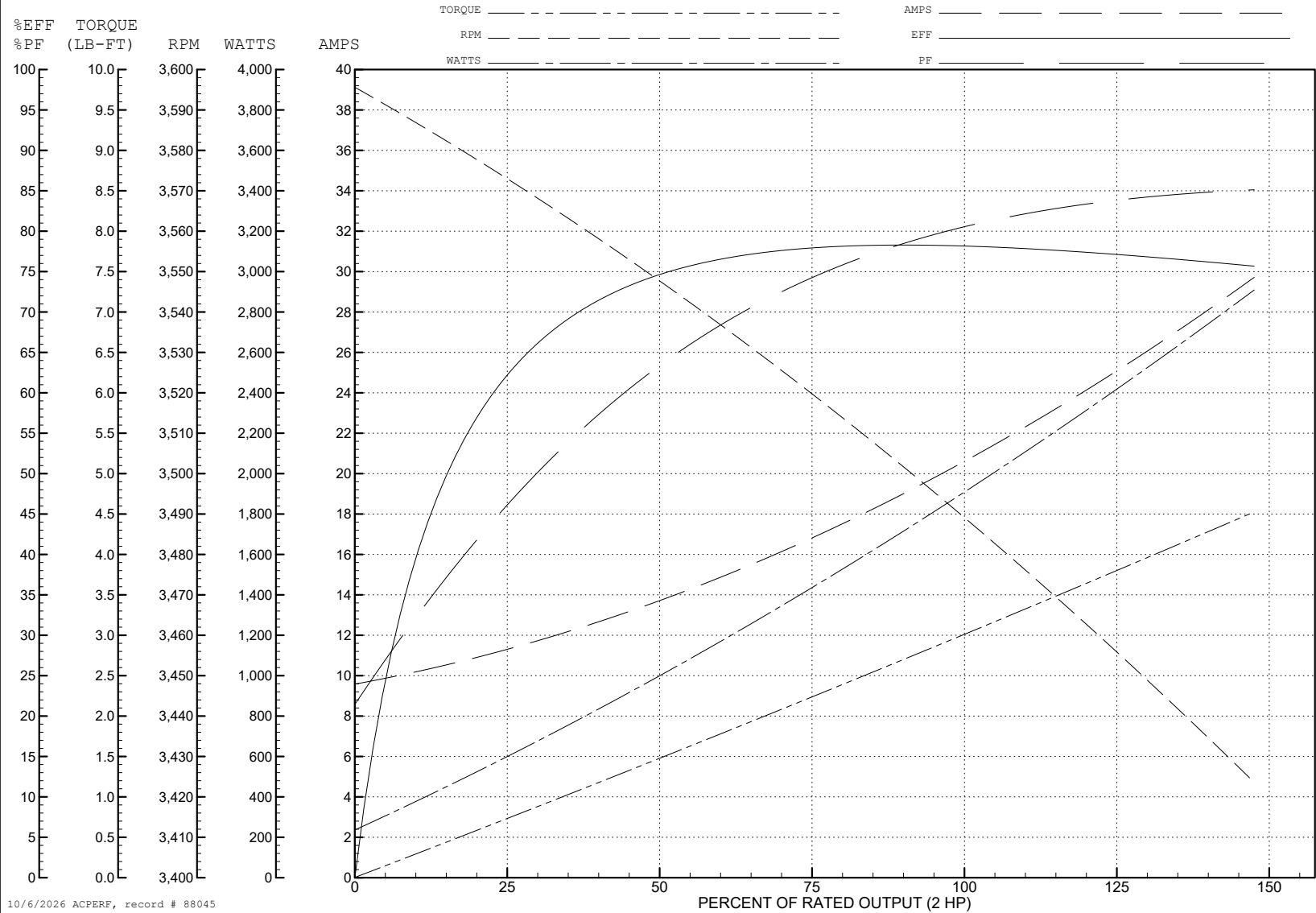
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WINDING # 35WGA0039

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3450 RPM 115 V 3540L

TORQUES (LB-FT) : PO=8.8 PU=3 LR=6.3 LRA=131



CD0001

