

ABB BALDOR RELIANCE III

Customer information packet

CL5023A

1HP, 1725RPM, 1PH, 60HZ, 56C, X3524L, XPFC, F1

Class - CLI GP D

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 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	6.500 A @ 230.0 V 13.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	67.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T2C
Heater Indicator	No Heater

Part Detail

Revision	AH
Type	AC
Mech. spec.	35G166
Base	
Status	NLA/A
Elec. spec.	35WGY190
Layout	35LYG166
Eff. date	01-18-2023
CD Diagram	CD0008
Poles	04
Leads	3#16 A PH,3#18 B&J,1#14 #4TH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	6.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.17 IN
Power Factor	73
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2

None

Nameplate

NP2204XPSL									
NO.		CC							
SER.									
SPEC.	35G166Y190G1								
CAT.NO.	CL5023A								
HP	1		T. CODE	T2C					
VOLTS	115/230								
AMPS	13/6.5								
RPM	1725								
HZ	60		PH	1		CL	B		
SER.F.	1.00		DES	L		CODE	K		
RATING	40C AMB-CONT								
FRAME	56C		NEMA-NOM-EFF						67
USABLE AT 208V	N/A		PF	73					
BLANK									

AC Induction Motor Performance Data

Record # 16853

Typical performance - not guaranteed values

Winding: 35WGY190-R002			Type: 3524L		Enclosure: XPFC			
Nameplate Data				230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1		Full Load Torque		3 LB-FT		
Volts		115/230		Start Configuration		direct on line		
Full Load Amps		13/6.5		Breakdown Torque		6.6 LB-FT		
R.P.M.		1725		Pull-up Torque		5.3 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		9.3 LB-FT		
NEMA Design Code		L	KVA Code	K		Starting Current	37 A	
Service Factor (S.F.)		1		No-load Current		4.6 A		
NEMA Nom. Eff.		67	Power Factor	73		Line-line Res. @ 25°C		2.76 Ω A Ph 1.86 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		76°C		

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	53	65	73	78	82
Efficiency	51.1	63	66.8	66.6	63.9	58.9
Speed	1781	1766	1749	1725	1697	1658
Line amperes	4.7	5.1	5.7	6.7	8	9.7

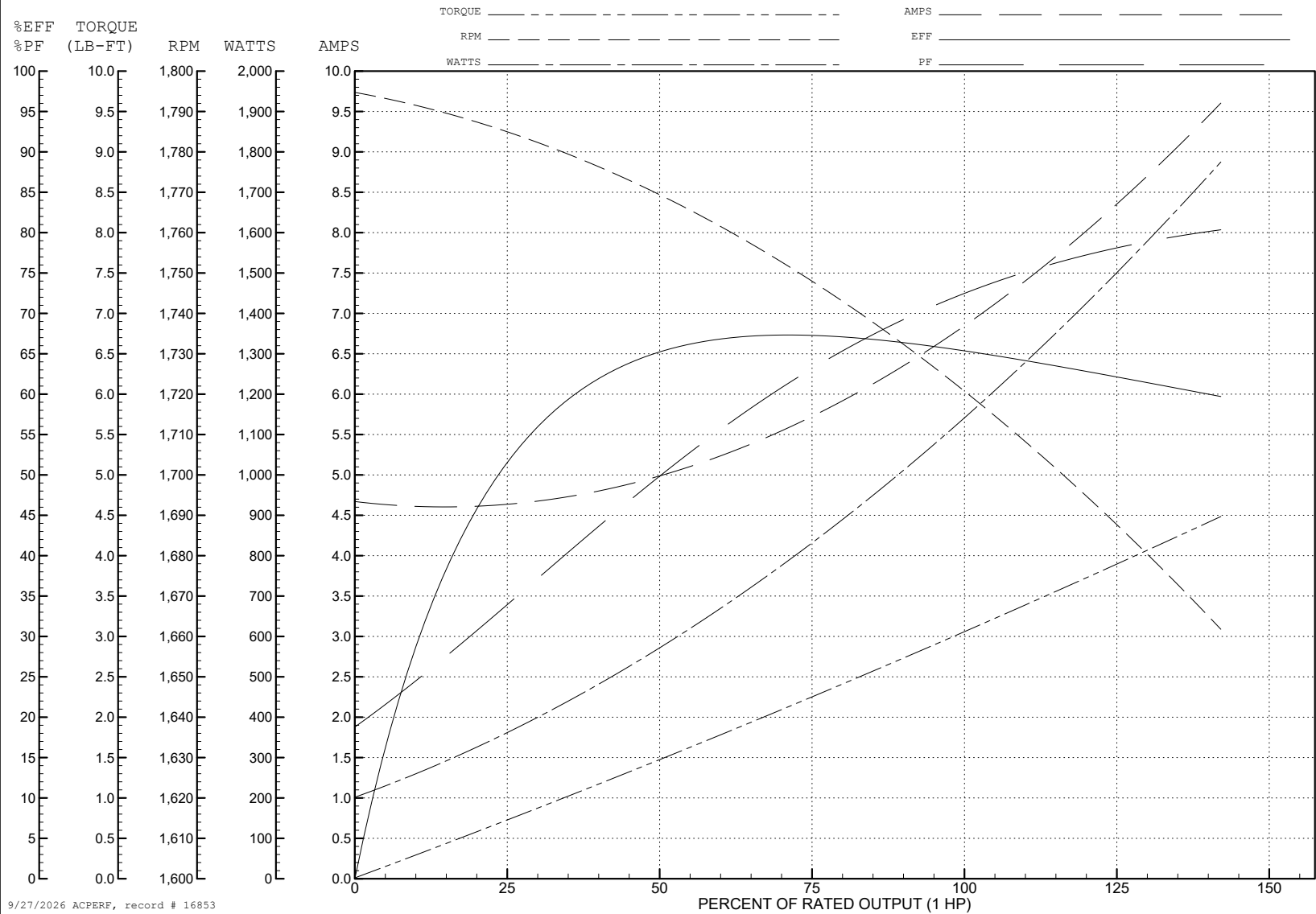
ABB Motors and Mechanical Inc.

WINDING # 35WGY190

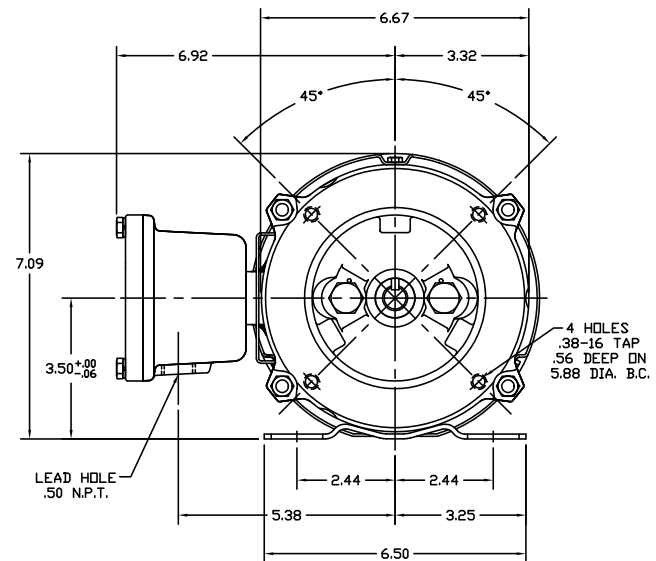
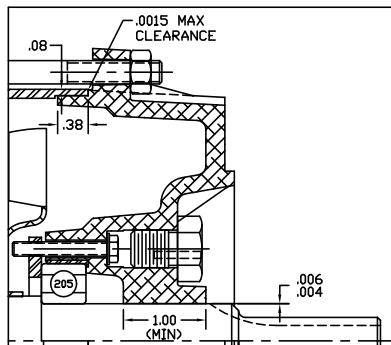
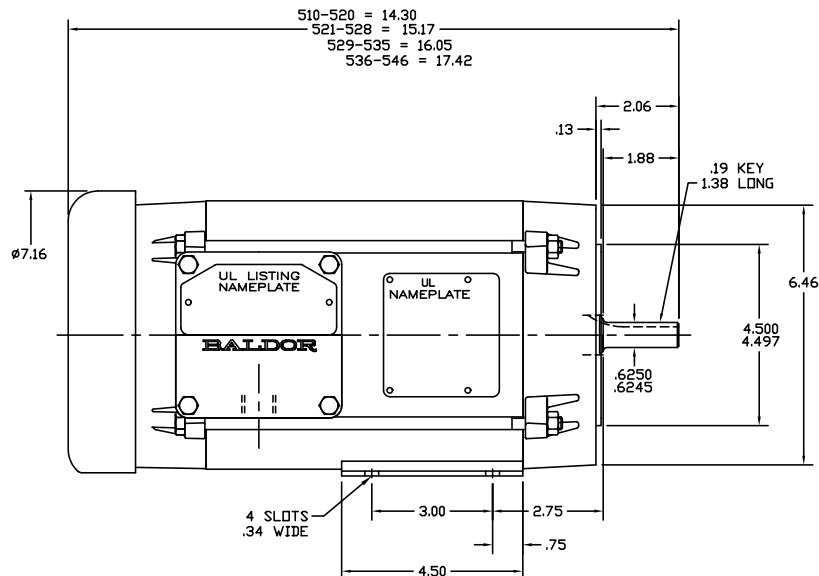
Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1725 RPM 230 V 3524L

TORQUES (LB-FT): PO=6.6 PU=5.3 LR=9.3 LRA=37



35G166



UL CLASS I - GROUP D

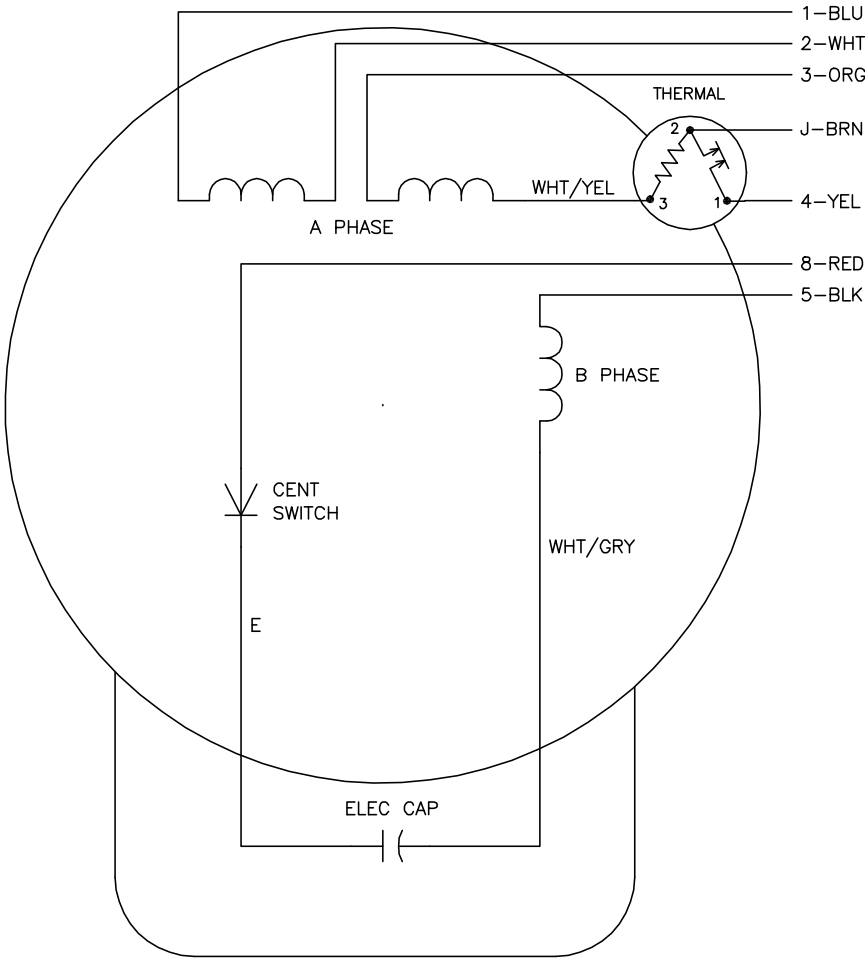
CUST. NAME				CUST. P.O.		REMARKS:		
MODEL	INSUL	AMB	H.P.	MTG		REV: D	ADDED W/ATO TO THE DESCRIPTION	
R.P.M.	VOLTS	ENCL	PHASE	FREQ		SCALE: .4	BY: SSS	REVISED: 03/28/96
FRAME	TYPE		CERTIFIED BY			FILE: AAA00005597	TDR: 0093662	

BALDOR ELECTRIC Co.

STD HDR 35L XPFC 56C CL I-GP D W/ATO

35G166

CD0008



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	2,J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008