ABB BALDOR RELIANCE

Customer information packet

CL5023A

1HP, 1725RPM, 1PH, 60HZ, 56C, X3524L, XPFC, F1
Class - CLI GP D
Division - Division I

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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. @ 25ºC**	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

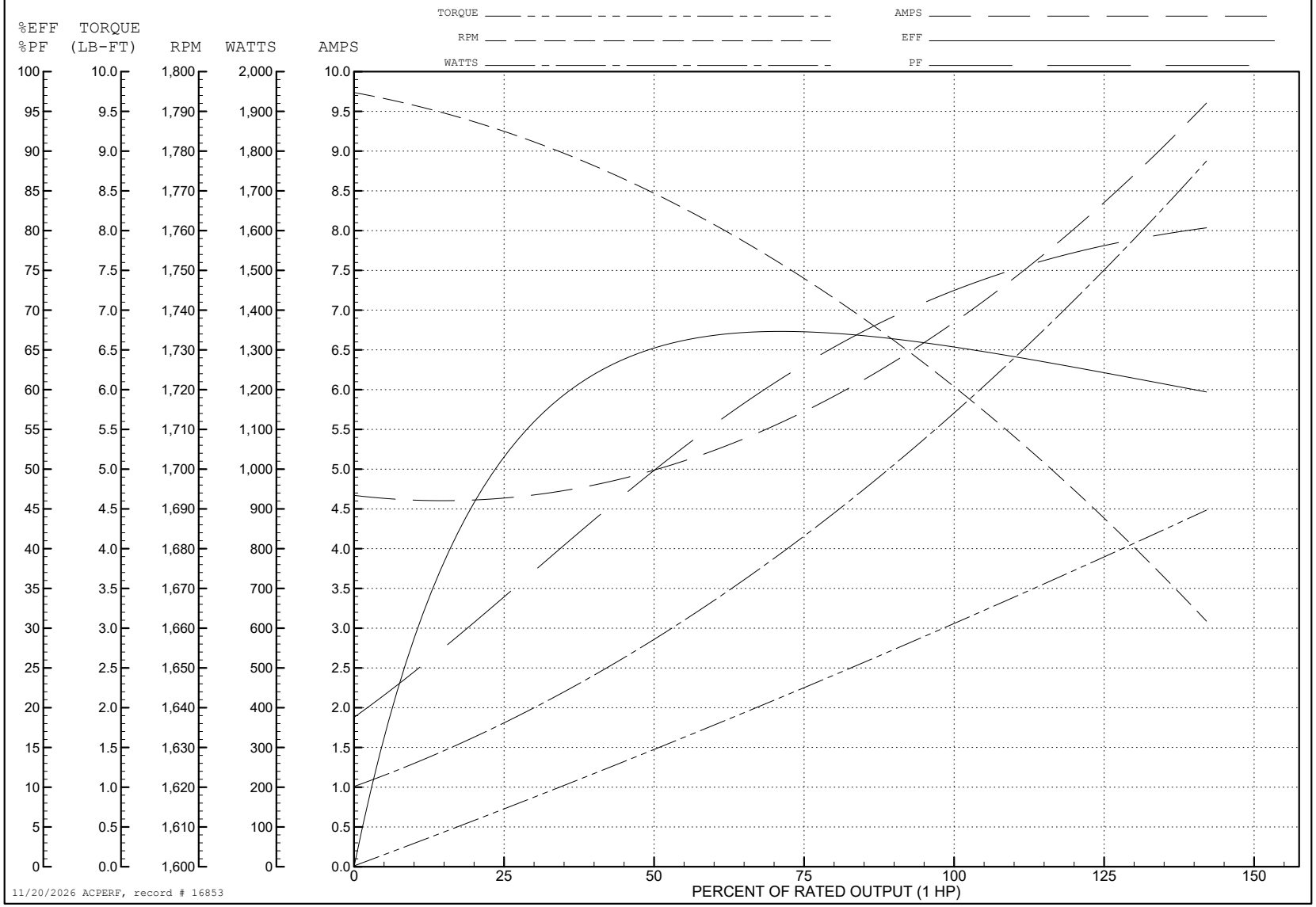
ABB Motors and Mechanical Inc.

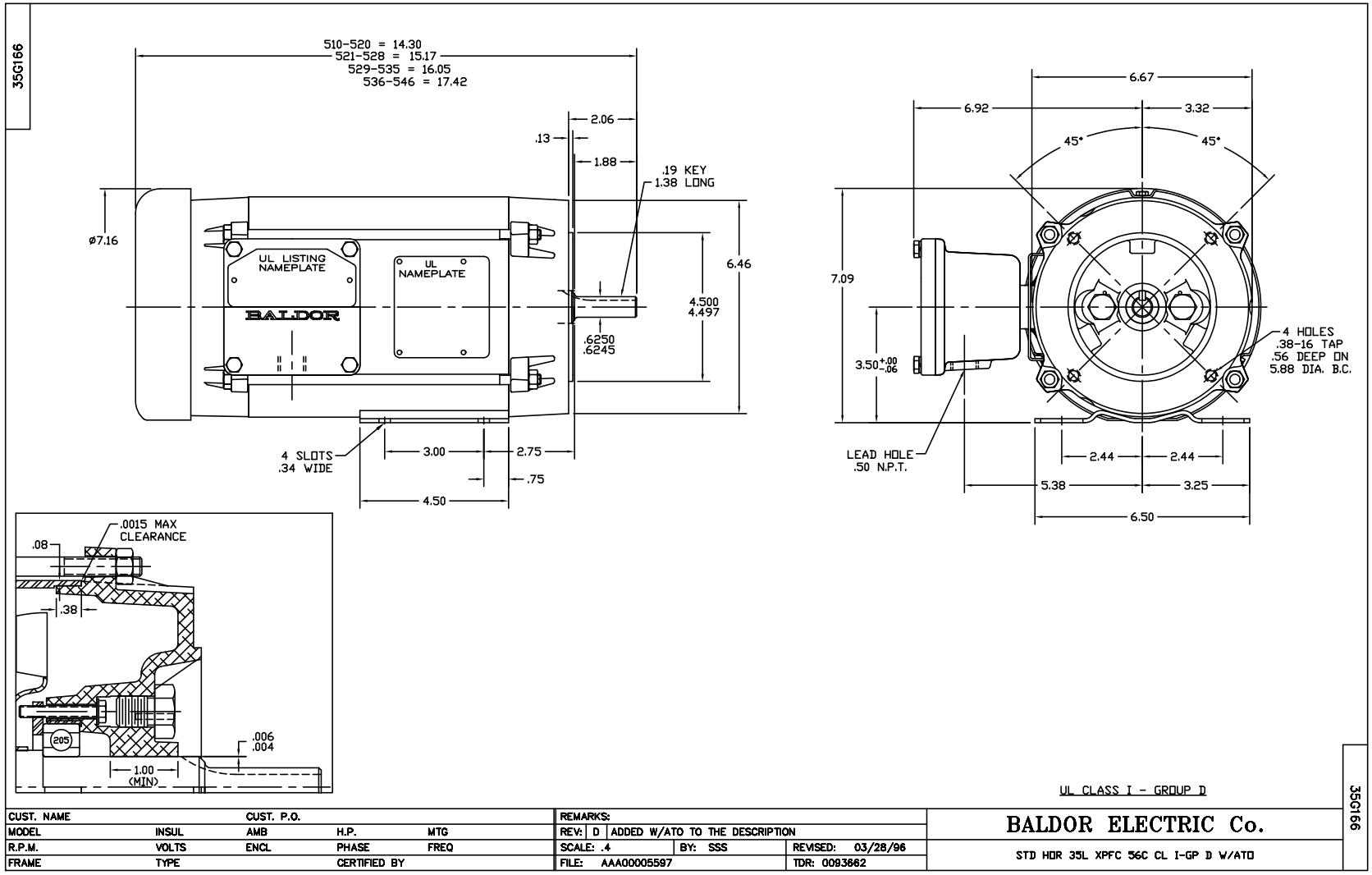
WINDING # 35WGY190

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

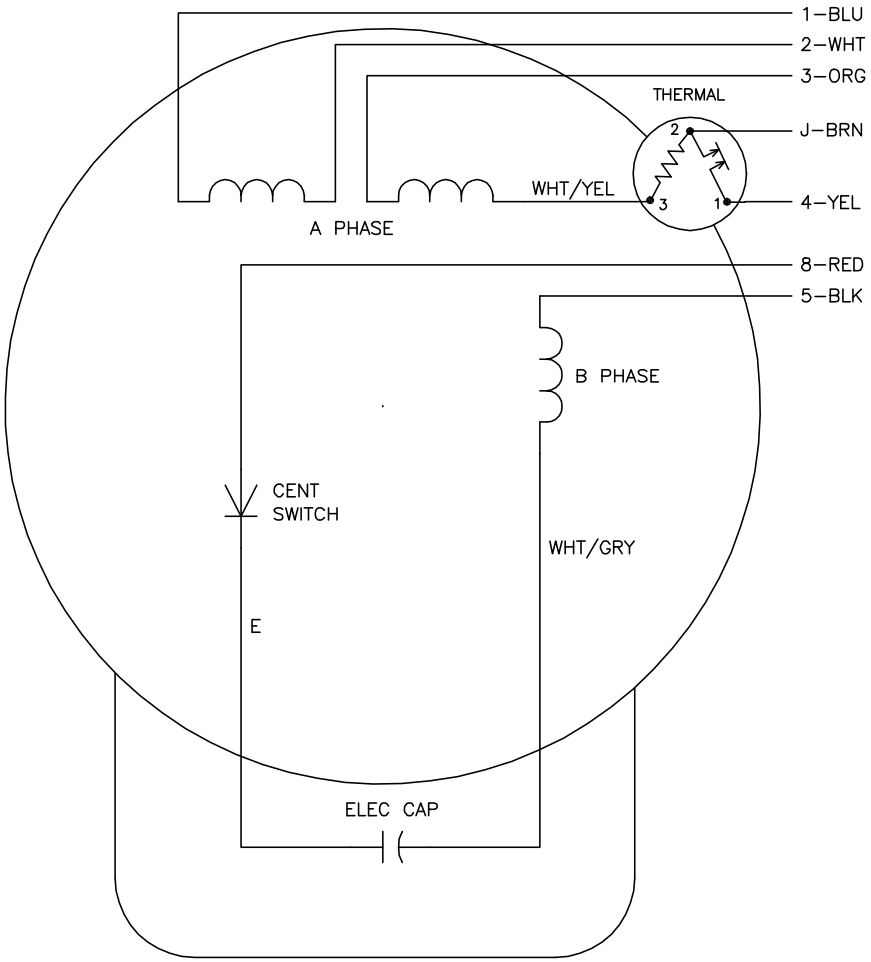
Typical performance - not guaranteed values.

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




35G166
510-520 = 14.30
521-528 = 15.17
529-535 = 16.05
536-546 = 17.42
2.06
.13
1.88
.19 KEY
1.38 LONG
ø7.16
UL LISTING NAMEPLATE
UL NAMEPLATE
BALDOR
6.46
4.500
4.497
.6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.75
4.50
6.67
6.92
3.32
45°
45°
7.09
3.50 +.00 -.06
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
LEAD HOLE
.50 N.P.T.
2.44
2.44
5.38
3.25
6.50
.0015 MAX
CLEARANCE
.08
.38
205
.006
.004
1.00
(MIN)
UL CLASS I - GROUP D
35G166
CUST. NAME
CUST. P.O.
MODEL
INSUL
AMB
H.P.
MTG
R.P.M.
VOLTS
ENCL
PHASE
FREQ
FRAME
TYPE
CERTIFIED BY
REMARKS:
REV: D ADDED W/ATO TO THE DESCRIPTION
SCALE: .4
BY: SSS
REVISED: 03/28/96
FILE: AAA00005597
TDR: 0093662
BALDOR ELECTRIC Co.
STD HDR 35L XPFC 56C CL I-GP D W/ATO

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.

CD0008

REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000360649	
CD0008	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005	TYPE L, DV, REV, THERMAL, 7 LEADS
	MTL: –	BY: ENJOEP0	