ABB BALDOR RELIANCE

Customer information packet

L5023T

1HP, 1725RPM, 1PH, 60HZ, 143T, 3528L, XPFC, F1
Class - CLI GP D
Division - Division I

8/12/2026 12:23:31 AM

Specifications

Enclosure	XPFC
Frame	143T
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
	208.0 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	6.300 A @ 208.0 V
	5.900 A @ 230.0 V
	11.800 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	35J659
Base	
Status	NLA/A
Elec. spec.	35WGN637
Layout	35LYJ659
Eff. date	01-18-2023
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	12-05-2012

Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.9 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.23 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	1725 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

NP0015XPSL					
NO.		**CC**			
SER. #					
SPEC	35J659N637G1				
CAT.NO.	L5023T				
H.P.	1	**T. CODE**	T2C		
VOLTS	115/208-230				
AMPS	11.8/6.3-5.9				
R.P.M.	1725				
HZ	60	**PH**	1	**CLASS**	B
SER.F.	1.00	**DES**	L	**CODE**	K
RATING	40C AMB-CONT				
FRAME	143T	**NEMA NOM. EFF**			72
PF	77				
BLANK					

AC Induction Motor Performance Data
Record # 40779
Typical performance - not guaranteed values

Winding: 35WGN637-R001	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.02 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			11.8/6.3-5.9	**Breakdown Torque**	9.58 LB-FT
R.P.M.			1725	**Pull-up Torque**	8.43 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	9.55 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	37.1 A
Service Factor (S.F.)			1	**No-load Current**	3.5 A
NEMA Nom. Eff.	72	**Power Factor**	77	**Line-line Res. @ 25ºC**	2.4797 Ω A Ph 1.1184 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	39	56	69	77	81	85
Efficiency	56.3	68.2	71.6	72.2	70.7	66.4
Speed	1783.5	1770.9	1755.8	1739.2	1718.6	1689.5
Line amperes	3.68	4.16	4.92	5.86	7.03	8.69

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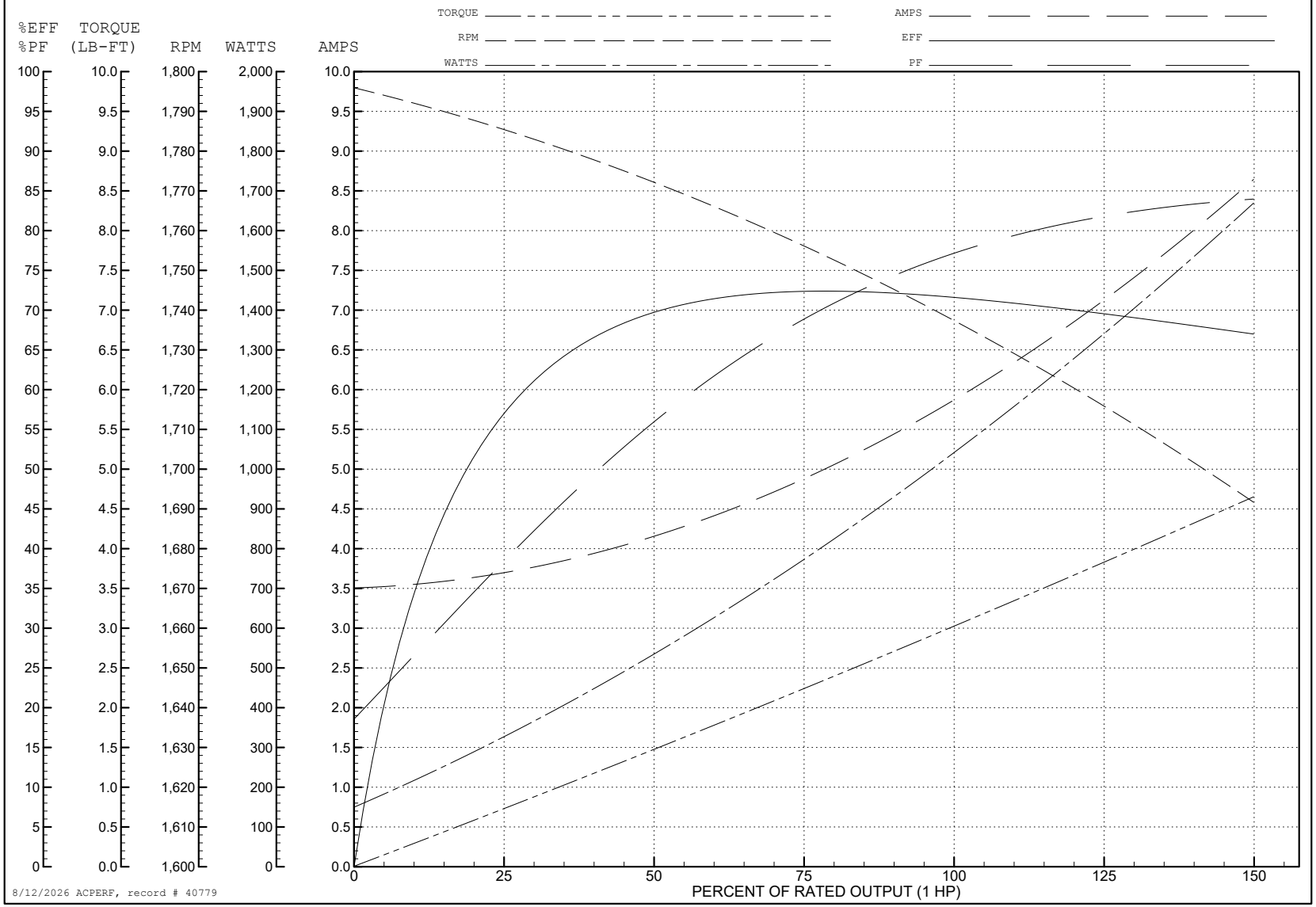
WINDING # 35WGN637

1 HP 1 PH 60 HZ 1725 RPM 230 V 3528L

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.58 PU=8.43 LR=9.55 LRA=37.1



AC Induction Motor Performance Data
Record # 40780
Typical performance - not guaranteed values

Winding: 35WGN637-R001	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				**208 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.03 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			11.8/6.3-5.9	**Breakdown Torque**	7.87 LB-FT
R.P.M.			1725	**Pull-up Torque**	6.56 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.06 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	32.3 A
Service Factor (S.F.)			1	**No-load Current**	3.01 A
NEMA Nom. Eff.	72	**Power Factor**	77	**Line-line Res. @ 25ºC**	2.4797 Ω A Ph 1.1184 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	73°C

Load Characteristics 208 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	64	75	82	85	86
Efficiency	58.2	69.5	71.6	69.4	63.9	48.7
Speed	1779.2	1762.5	1741.7	1714.9	1674.4	1576
Line amperes	3.3	3.94	4.94	6.28	8.24	12.4

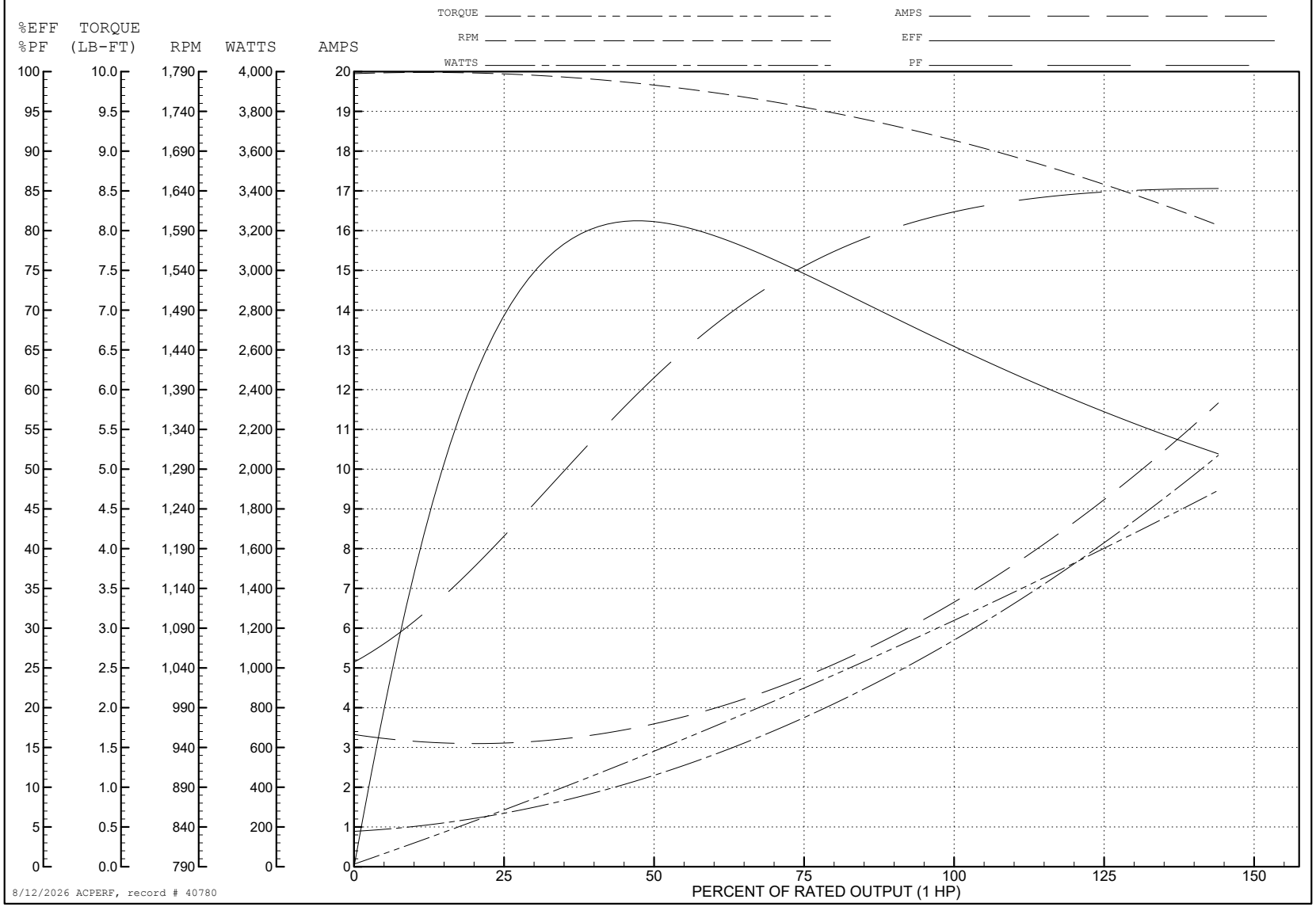
ABB Motors and Mechanical Inc.

WINDING # 35WGN637

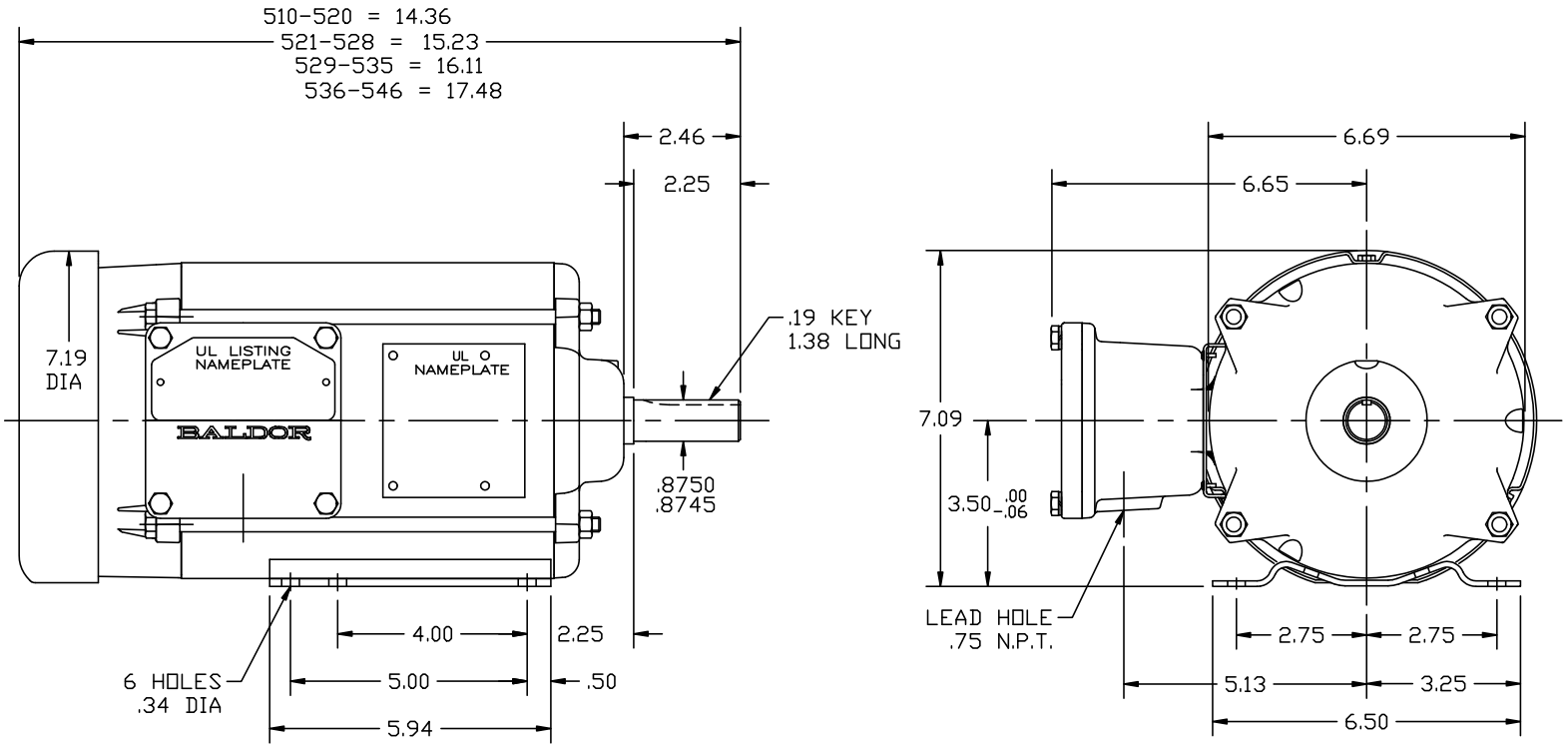
1 HP 1 PH 60 HZ 1725 RPM 208 V 3528L

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=7.87 PU=6.56 LR=8.06 LRA=32.3



35J659



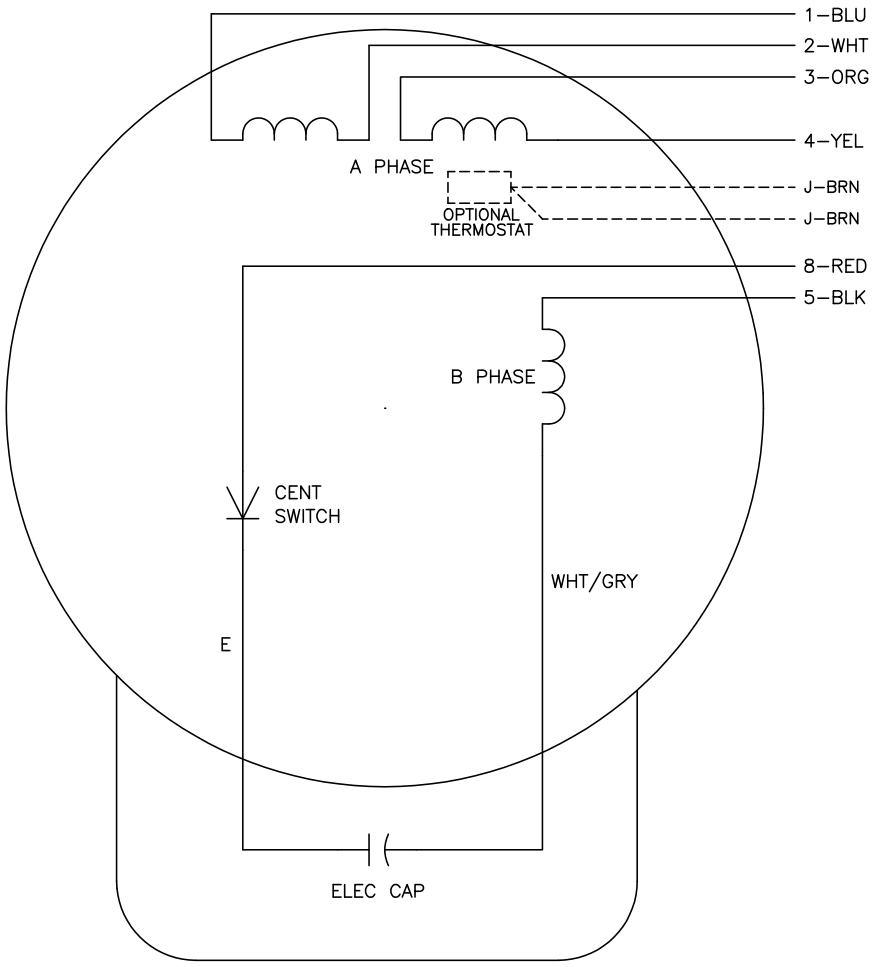
CUST. NAME	CUST. P.O.	CERTIFIED BY	MODEL	INSUL	AMB
H.P.	MTG	TYPE	R.P.M.	VOLTS	ENCL	PHASE	FREQ	FRAME
REMARKS:								
REV: B	LOADED TO ACAD							
35J659	SCALE: .3	BY: JKH	REVISED: 10/05/94					
	FILE: AAA00014073		TDR: 0051035					

BALDOR ELECTRIC Co.

STD HORZ X35L NEMA 143-5T TEFC UL CLASS I-GP D T'STATS

35J659

CD0001



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

NOTES:

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

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS

CD0001