

ABB BALDOR RELIANCE III

Customer information packet

RL1307A277

.75HP, 1725RPM, 1PH, 60HZ, 56H, 3428L, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56H
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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	277.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 A @ 277.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	D
Type	AC
Mech. spec.	34L986
Base	
Status	PRD/A
Elec. spec.	34WGX691
Layout	34LYL986
Eff. date	10-28-2024
CD Diagram	CD0085
Poles	04
Leads	5#18
Proprietary	False
Created date	08-21-2012

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.47 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
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

NP1257L									
CAT.NO.	RL1307A277								
SPEC.	34L986X691G1								
HP	.75								
VOLTS	277								
AMP	4.2								
RPM	1725								
FRAME	56H			HZ	60		PH	1	
SER.F.	1.25	CODE	M	DES	N	CL	F		
NEMA-NOM-EFF	66	PF	69						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	OPEN	SN							
	SFA 4.6								

AC Induction Motor Performance Data

Record # 50726

Typical performance - not guaranteed values

Winding: 34WGX691-R002			Type: 3428L		Enclosure: OPEN		
Nameplate Data			277 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT		
Volts		277	Start Configuration		direct on line		
Full Load Amps		4.2	Breakdown Torque		6 LB-FT		
R.P.M.		1725	Pull-up Torque		5.7 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		10.8 LB-FT	
NEMA Design Code		N	KVA Code		M	Starting Current	29 A
Service Factor (S.F.)		1.25	No-load Current		3.1 A		
NEMA Nom. Eff.		66	Power Factor		69	Line-line Res. @ 25°C	3.94 Ω A Ph 6.8 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	75°C	
S.F. Amps		4.6	Temp. Rise @ S.F. Load		91°C		
			Locked-rotor Power Factor		98.9		
			Rotor inertia		0.0665 LB-FT2		

Load Characteristics 277 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	50	62	71	75	78	75
Efficiency	43.4	60.3	65.7	67.4	67	64.7	67
Speed	1779	1765	1750	1733	1711	1685	1711
Line amperes	3.2	3.4	3.7	4.2	4.9	5.8	4.9

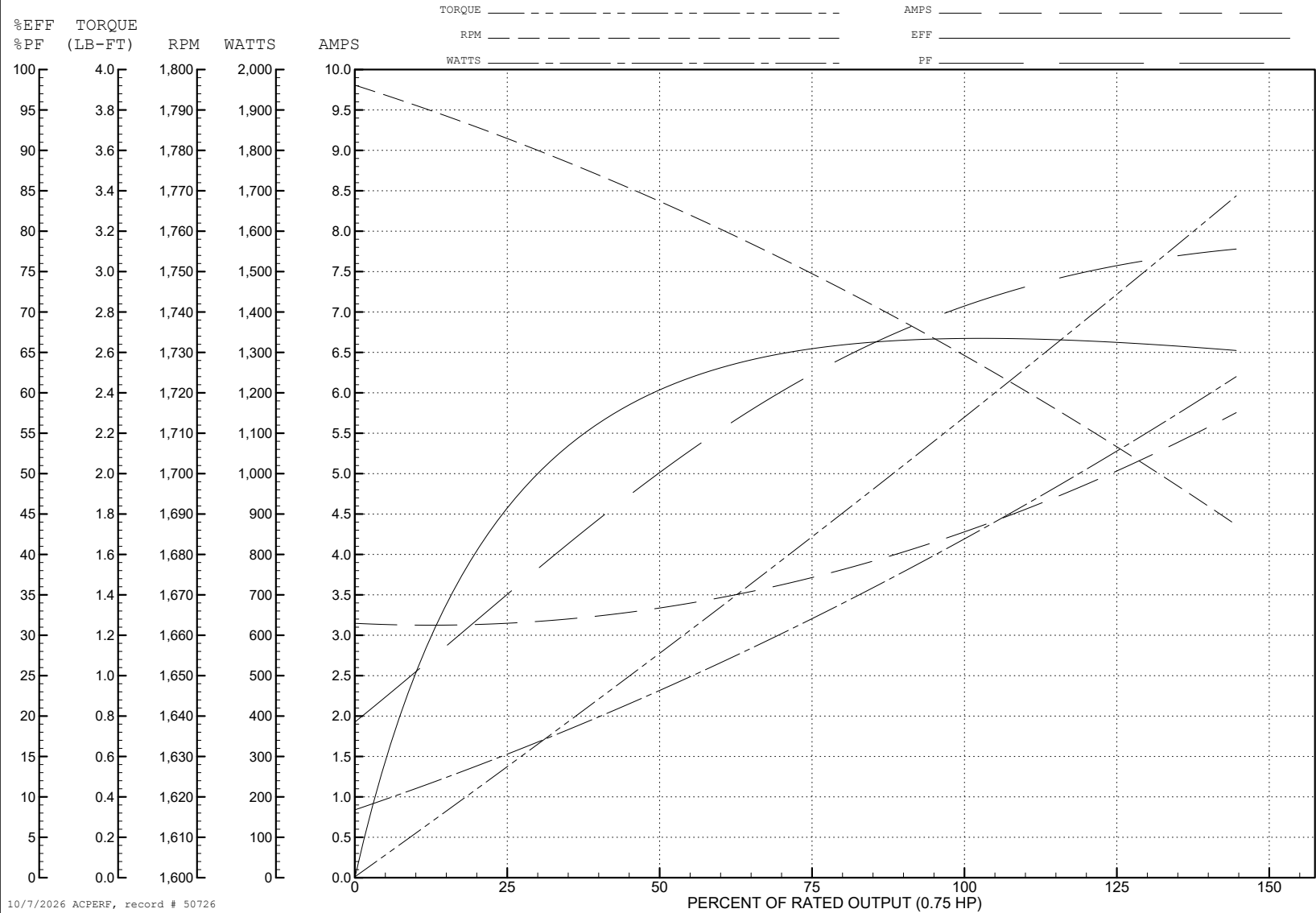
ABB Motors and Mechanical Inc.

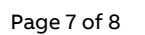
WINDING # 34WGX691

Typical performance - not guaranteed values.

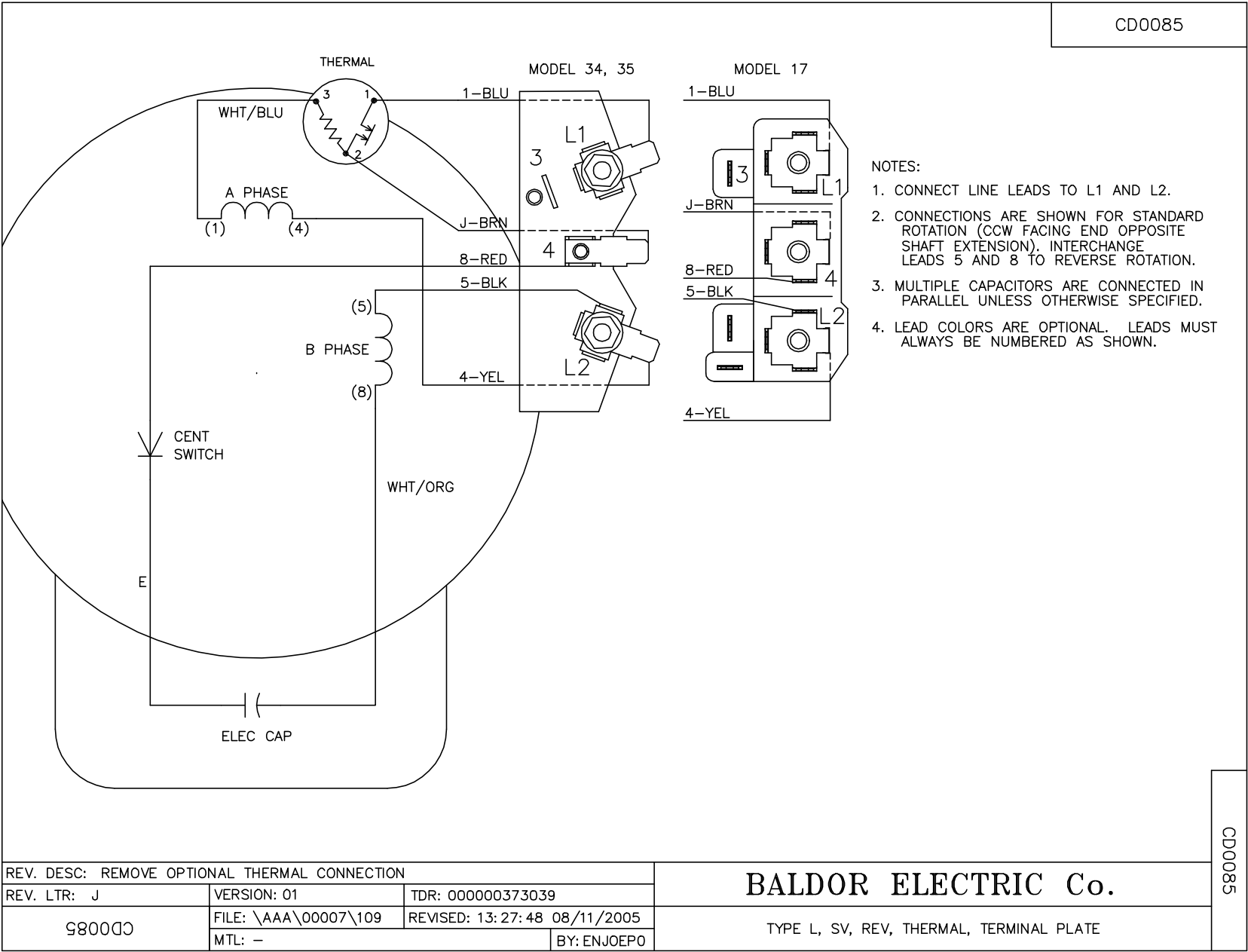
0.75 HP 1 PH 60 HZ 1725 RPM 277 V 3428L

TORQUES (LB-FT) : PO=6 PU=5.7 LR=10.8 LRA=29





CD0085



REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: J	VERSION: 01	TDR: 000000373039
CD0085	FILE: \AAA\00007\109	REVISED: 13:27:48 08/11/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, SV, REV, THERMAL, TERMINAL PLATE

CD0085