

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										

Parts List

Part number	Description	Quantity
SA249914	SA 34L986X691G1	1.000 ea
RA236774	RA 34L986X691G1	1.000 ea
EC1108C03	ELEC CAP, 108-130 MFD, 250V, 1.81D X 3.	1.000 ea
34EP3202A01	FR ENDPLATE, MACH	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
LD5000A52	LEAD ASSY W/INTERNAL STAR RING TERMINALS	1.000 ea
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 ea
33CB4800A02	CAPACITOR COVER, STAMPED	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
34EP3203A01	PU ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
34BA4011G01	RESILIENT BASE, MODEL 34 NEMA 56H	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 ea
SP5068A04	MODEL 34 TERMINAL PANEL SWITCH WITH LEAD	1.000 ea
LC0085	CONNECTION LABEL	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea

35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
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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

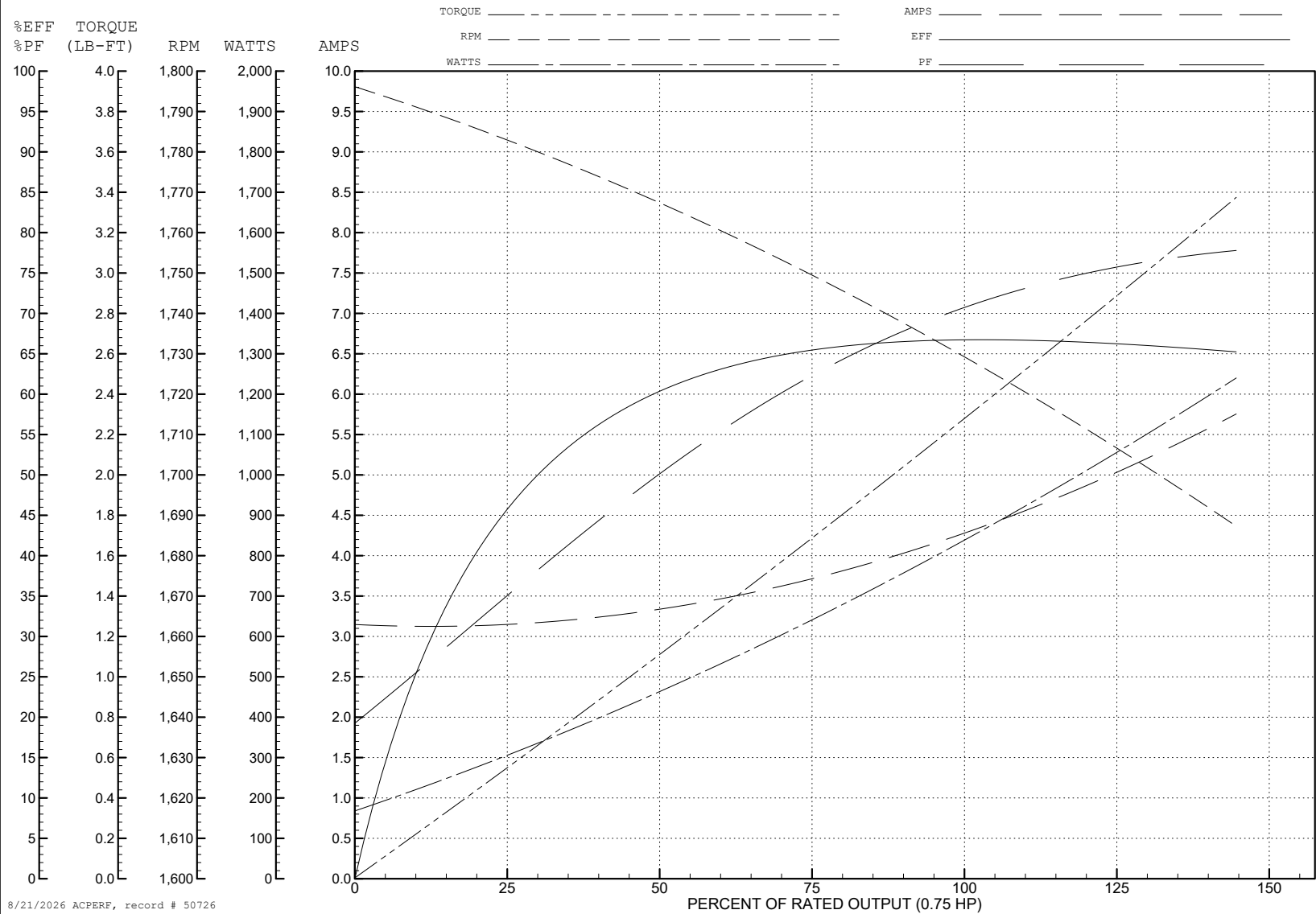
ABB Motors and Mechanical Inc.

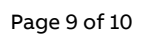
WINDING # 34WGX691

Typical performance - not guaranteed values.

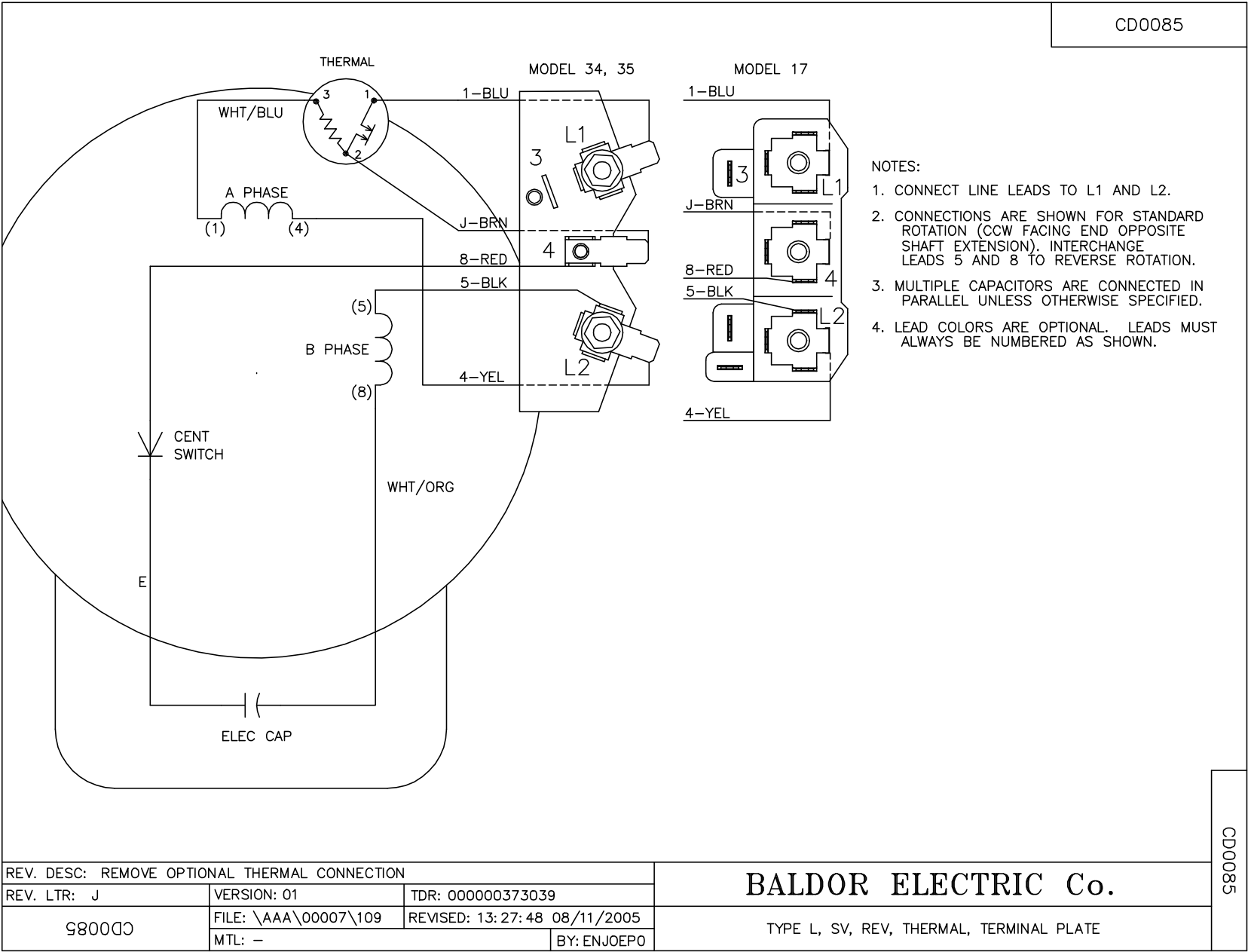
0.75 HP 1 PH 60 HZ 1725 RPM 277 V 3428L

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





CD0085



CD0085