

ABB BALDOR RELIANCE III

Customer information packet

VFDL3610TM

3HP, 1750RPM, 1PH, 60HZ, 184TC, 3640LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	15.500 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	15.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	S
Type	AC
Mech. spec.	36Q159
Base	
Status	PRD/A
Elec. spec.	36WGY739
Layout	36LYQ159
Eff. date	07-25-2024
CD Diagram	CD0002A02
Poles	04
Leads	2#14 A PH,3#16 B&J
Proprietary	False
Created date	12-03-2013

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.05 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1750 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	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	VFDL3610TM								
SPEC.	36Q159Y739G1								
HP	3								
VOLTS	230								
AMP	15.5								
RPM	1750								
FRAME	184TC		HZ	60		PH		1	
SER.F.	1.00		CODE	M		DES	L	CL	F
NEMA-NOM-EFF	80		PF	76					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC		SN						

AC Induction Motor Performance Data

Record # 11466

Typical performance - not guaranteed values

Winding: 36WGY739-R001			Type: 3640LC		Enclosure: TEFC			
Nameplate Data				230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3		Full Load Torque		9 LB-FT		
Volts		230		Start Configuration		direct on line		
Full Load Amps		15.5		Breakdown Torque		32 LB-FT		
R.P.M.		1750		Pull-up Torque		31 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		37 LB-FT		
NEMA Design Code		L	KVA Code	M		Starting Current	144 A	
Service Factor (S.F.)		1		No-load Current		10.7 A		
NEMA Nom. Eff.		80	Power Factor	76		Line-line Res. @ 25°C		0.472 Ω A Ph 1.53 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		85°C		

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	39	56	68	76	82	85
Efficiency	53.4	70.8	77.9	81	82	81.9
Speed	1791	1782	1775	1768	1759	1749
Line amperes	10.9	11.8	13.5	15.5	18	20.7

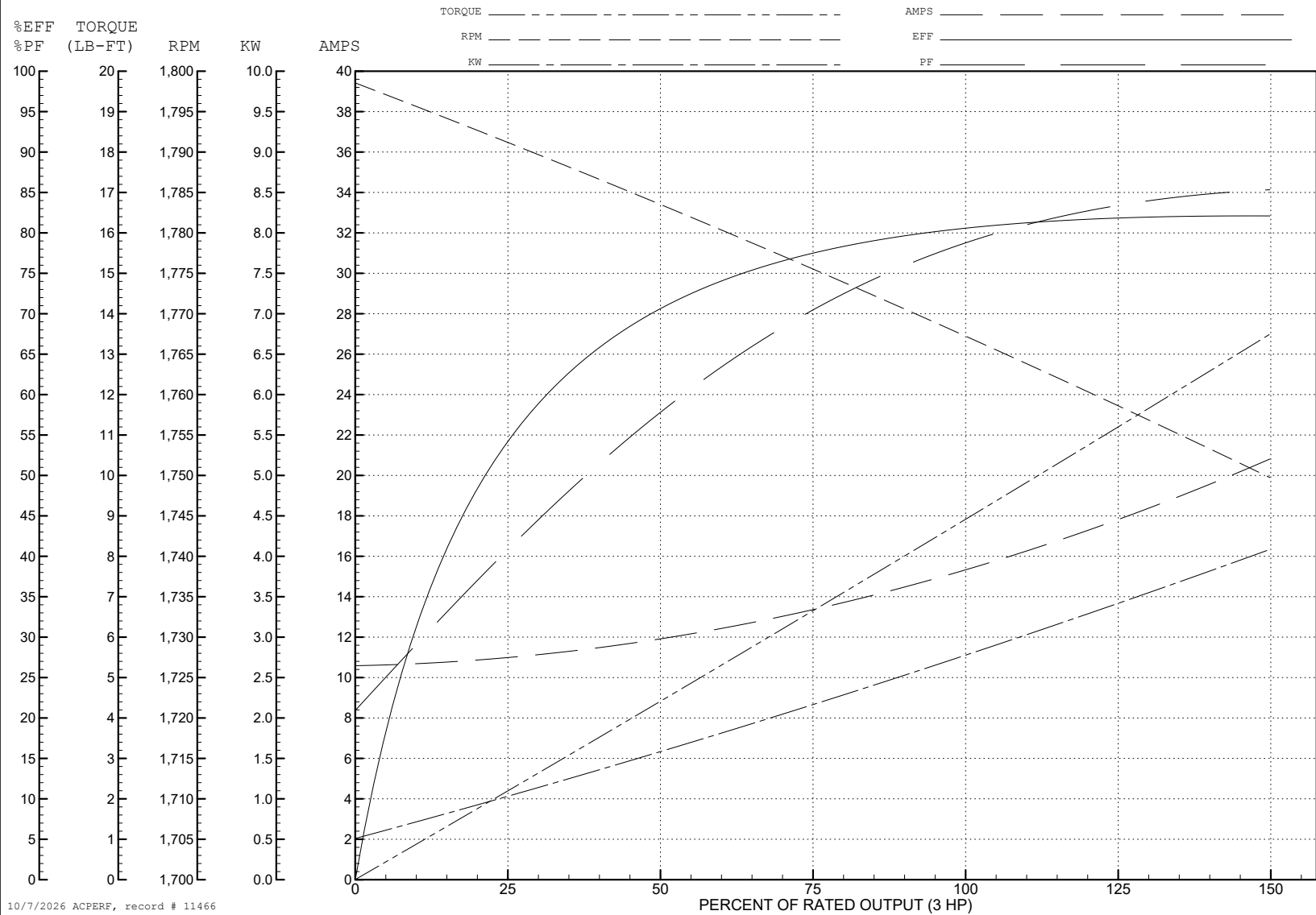
ABB Motors and Mechanical Inc.

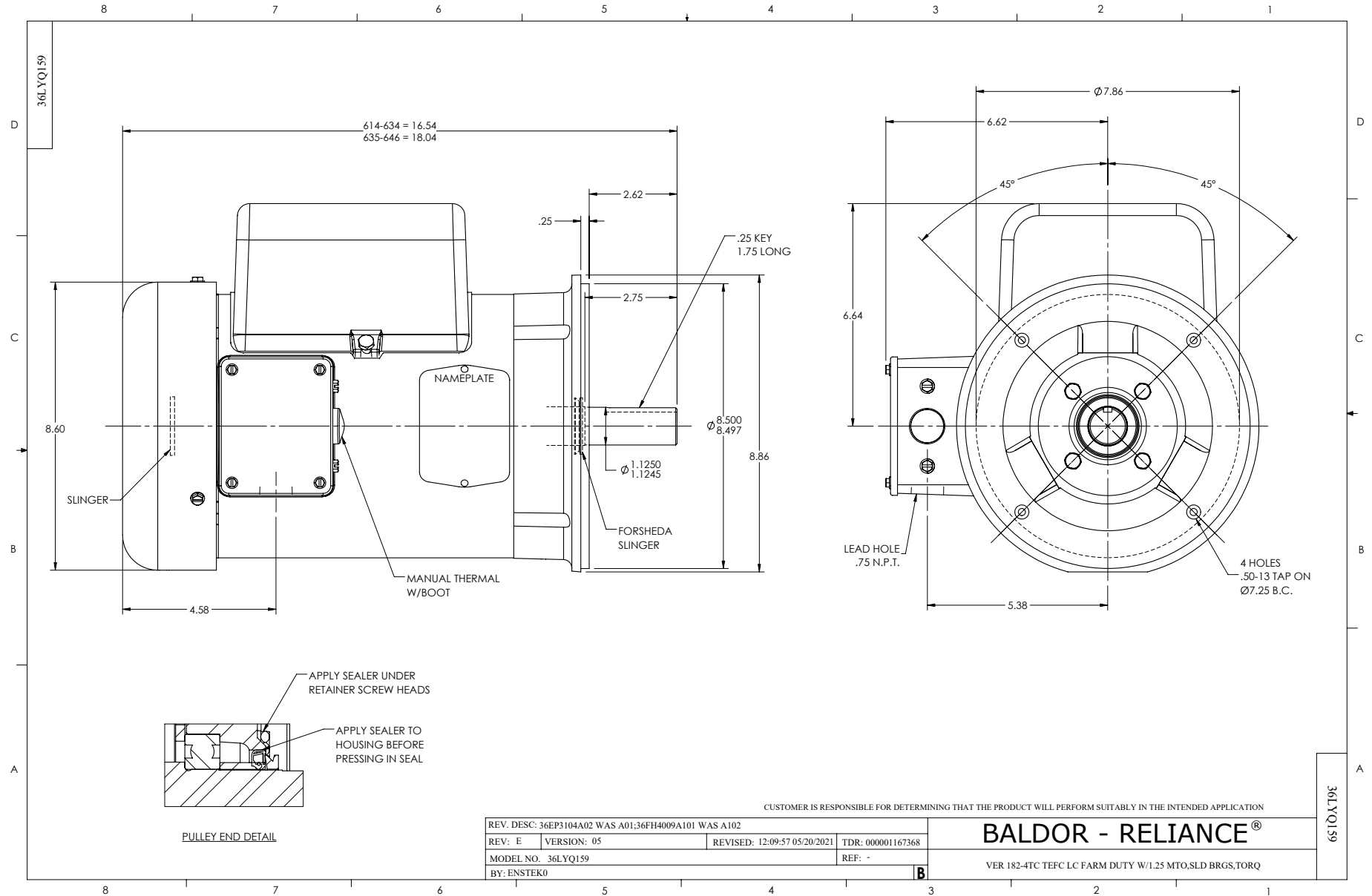
WINDING # 36WGY739

Typical performance - not guaranteed values.

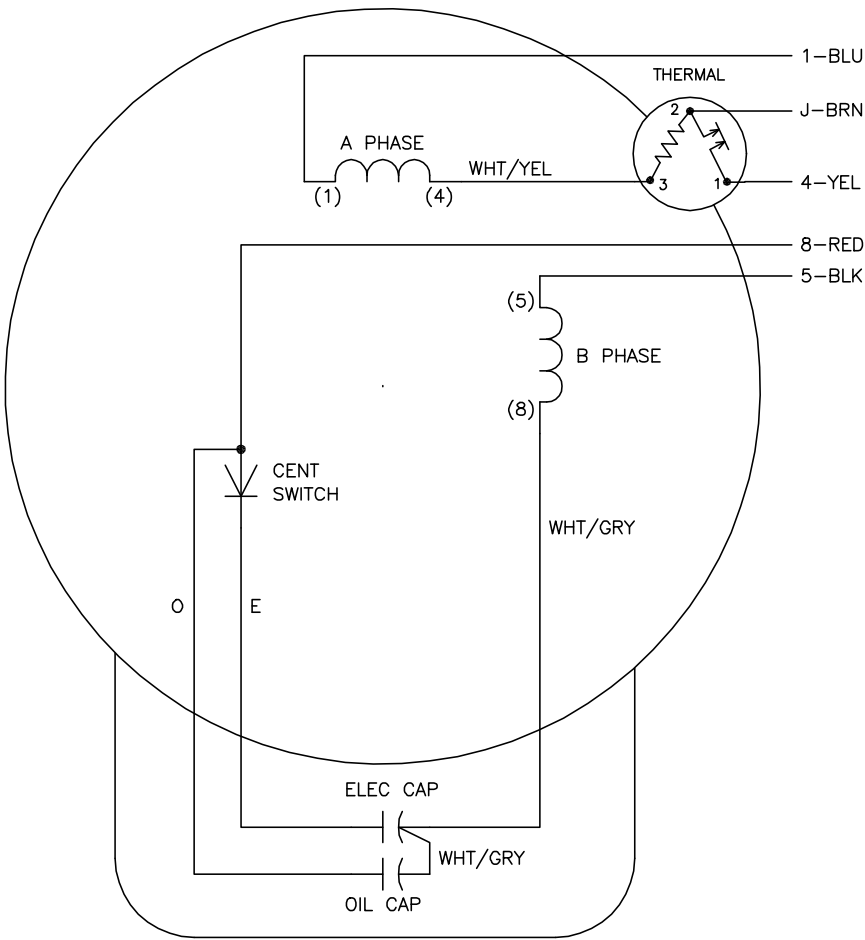
3 HP 1 PH 60 HZ 1750 RPM 230 V 3640LC

TORQUES (LB-FT): PO=32 PU=31 LR=37 LRA=144





CD0002A02



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	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 CD0002A04		
REV. LTR: D	VERSION: 01	TDR: 000000360649
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, THERMAL, 5 LEADS

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