ABB BALDOR RELIANCE

Customer information packet

VFSWDNM3610T-E

3HP, 3500RPM, 3PH, 60HZ, 182TC, 3646M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	182TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	NEMA PREMIUM
	UR
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	3.500 A @ 460.0 V
	7.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a

Part Detail

Revision	Q
Type	AC
Mech. spec.	36R540
Base	
Status	PRD/A
Elec. spec.	36WGR690
Layout	36LYR540
Eff. date	04-06-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	07-14-2017

Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	P
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.05 IN
Power Factor	92
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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	None
Winding Thermal 2	None

Nameplate

NP4427AAA01												
CAT #	VFSWDNM3610T-E			**WT**	96	**LBS**						
SPEC	36R540R690G1			**ENCL**	TENV							
SER #				**CC**	010A	**IP**	69					
HP	3			**MAG CUR**	2.4/1.2							
VOLTS	230/460					**NEMA NOM. EFF**	89.5					
AMPS	7/3.5					**PF**	92					
RATING	40C AMB-CONT											
RPM	3500				**MAX RPM**	5400						
FRAME	182TC	**HZ**	60	**CODE**	P	**CLASS**	H					
SER.F.	1.15	**SF AMP**	8/4			**PH**	3	**DES**	A			
DE	6206			**ODE**	6206							
LUBRICATION	POLYREX EM											
ID LOGO		**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90		1.5:1	
ID LOGO	**WK2**	0.207	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	1.7	**VT**	3	**TO**	60		20:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 72109
Typical performance - not guaranteed values

Winding: 36WGR690-R001	**Type:** 3646M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.536 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7/3.5	**Breakdown Torque**	29.7 LB-FT
R.P.M.			3500	**Pull-up Torque**	22 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.7 LB-FT
NEMA Design Code	A	**KVA Code**	P	**Starting Current**	51.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.21 A
NEMA Nom. Eff.	89.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	2.4383 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	99°C
S.F. Amps				**Temp. Rise @ S.F. Load**	108°C
				Locked-rotor Power Factor	41.4

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	62	80	87	91	93	94	92
Efficiency	76.2	85.4	88	88.8	89.5	89	89.2
Speed	3576.9	3559.8	3542	3522	3503.1	3482.1	3511
Line amperes	1.53	2.09	2.77	3.52	4.23	5.02	3.95

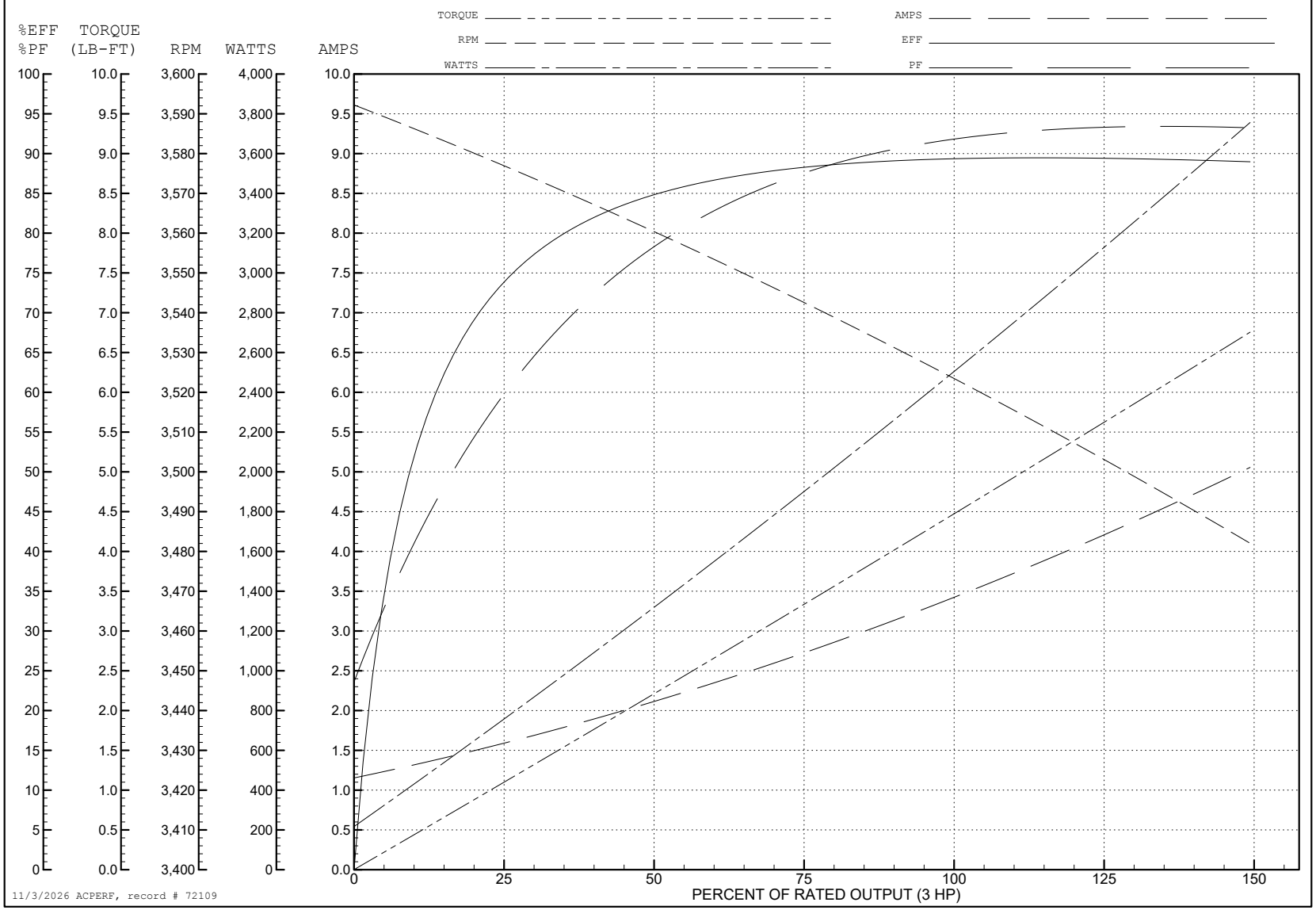
ABB Motors and Mechanical Inc.

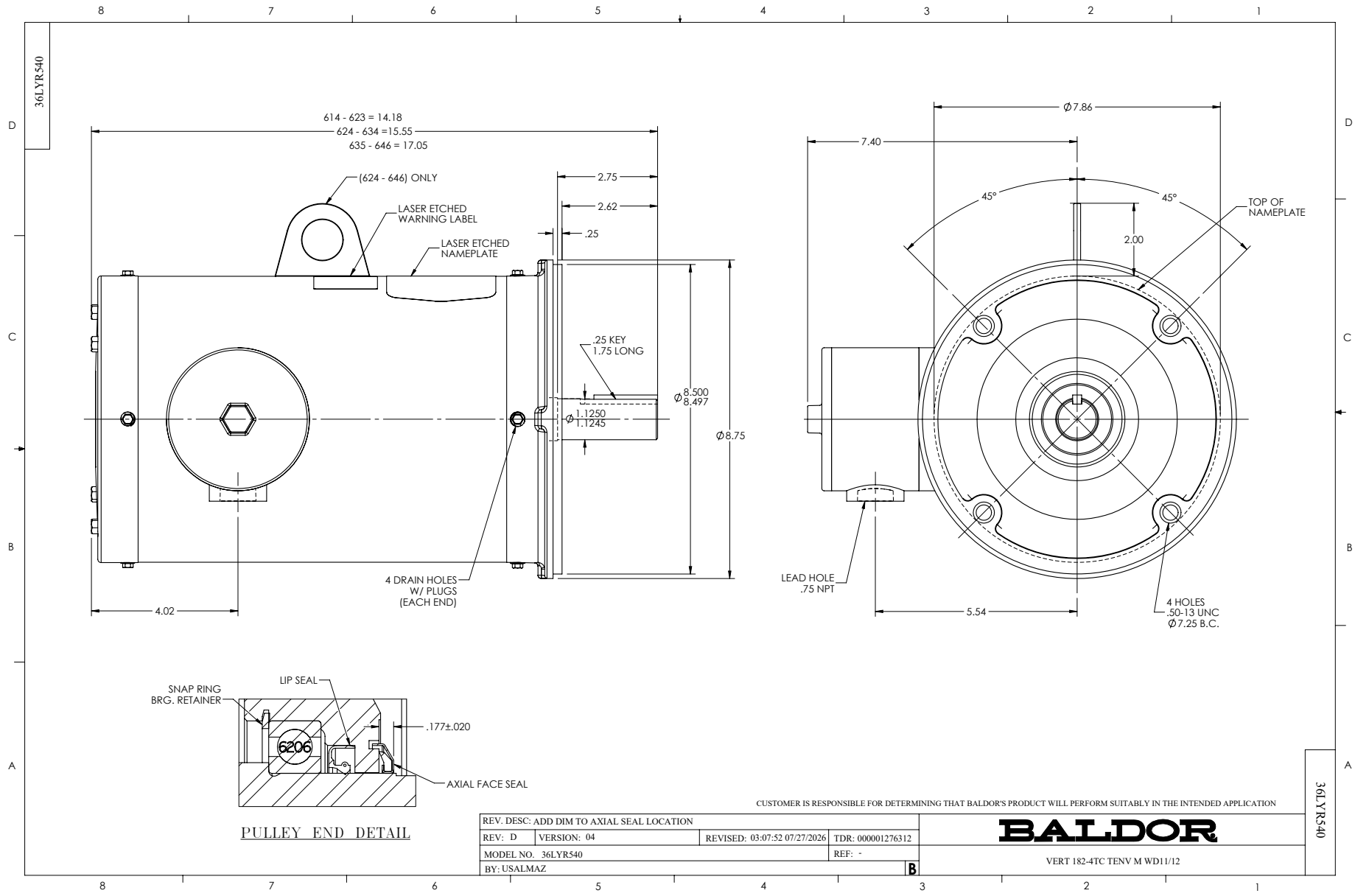
WINDING # 36WGR690

3 HP 3 PH 60 HZ 3500 RPM 460 V 3646M

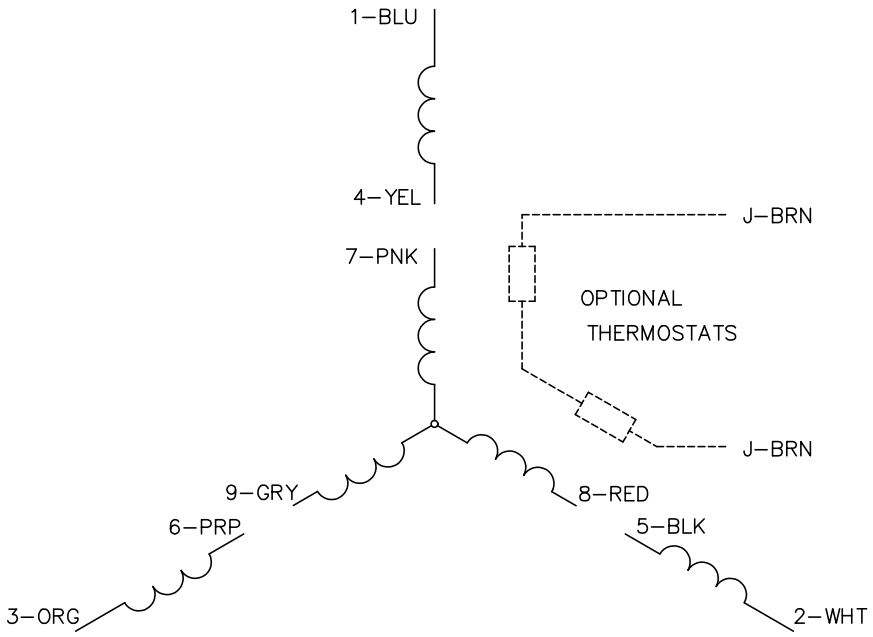
Typical performance - not guaranteed values.

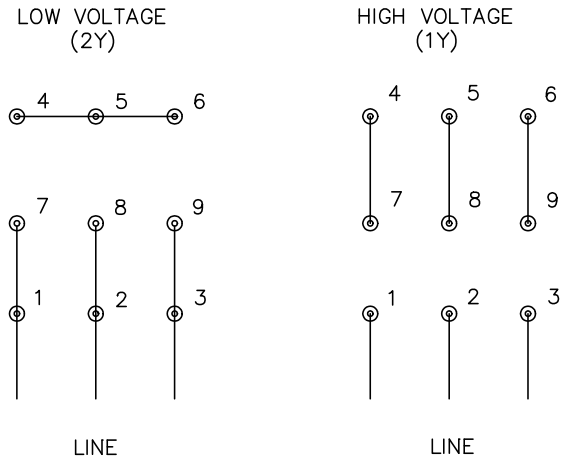
TORQUES(LB-FT): PO=29.7 PU=22 LR=27.7 LRA=51.1




36LYR540
614 - 623 = 14.18
624 - 634 =15.55
635 - 646 = 17.05
(624 - 646) ONLY
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
2.75
2.62
.25
.25 KEY 1.75 LONG
Ø8.500 8.497
Ø1.1250 1.1245
Ø8.75
4 DRAIN HOLES W/ PLUGS (EACH END)
4.02
Ø7.86
7.40
45°
45°
TOP OF NAMEPLATE
2.00
LEAD HOLE .75 NPT
5.54
4 HOLES .50-13 UNC Ø7.25 B.C.
SNAP RING BRG. RETAINER
LIP SEAL
.177±.020
6206
AXIAL FACE SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: D
VERSION: 04
REVISED: 03:07:52 07/27/2026
TDR: 000001276312
MODEL NO. 36LYR540
REF: -
BY: USALMAZ
B
BALDOR
VERT 182-4TC TENV M WD11/12
36LYR540

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS