ABB BALDOR RELIANCE

Customer information packet

VFSWDNM3611T-E

3HP, 1750RPM, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	8.000 A @ 230.0 V
	8.600 A @ 208.0 V
	4.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	36R540
Base	
Status	PRD/A
Elec. spec.	36WGR704
Layout	36LYR540
Eff. date	11-25-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	07-14-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	4
Overall Length	17.05 IN
Power Factor	79
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 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	None
Winding Thermal 2	None

Nameplate

NP4427AAA01												
CAT #	VFSWDNM3611T-E			**WT**	101	**LBS**						
SPEC	36R540R704G1			**ENCL**	TENV							
SER #				**CC**	010A	**IP**	69					
HP	3			**MAG CUR**	4/2							
VOLTS	230/460					**NEMA NOM. EFF**	89.5					
AMPS	8/4					**PF**	79					
RATING	40C AMB-CONT											
RPM	1750				**MAX RPM**	2700						
FRAME	182TC	**HZ**	60	**CODE**	K	**CLASS**	H					
SER.F.	1.15	**SF AMP**	9/4.5			**PH**	3	**DES**	B			
DE	6206			**ODE**	6206							
LUBRICATION	POLYREX EM											
ID LOGO	**INVERTER TYPE**			**VPWM**		**CHP**	60	**TO**	90		1.5:1	
ID LOGO	**WK2**	0.428	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	1.7	**VT**	3	**TO**	60		20:1				
						QR						
YR												

Parts List

Part number	Description	Quantity
SA343366	SA 36R540R704G1	1.000 ea
RA331819	RA 36R540R704G1	1.000 ea
35CB1017A02	5/36 MID SECT - 3 PC. CONDUIT BOX 3/4 N	1.000 ea
11XW1032G08	10-32 X .50, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP1920A05	FREP TENV 206 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36EP1925A02	PUEP 182-4TC ENCL 206 BRG WD11/12 STAINL	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
HW4600G02	30 X 47 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F25	30 X 48 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
RM1070A14	O-RING, -010 VITON/FKM .070CS X .239ID	4.000 ea
35CB1513A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HA3424S48	STUD - M6X1.0 THDS X 3.00"	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HW2502E16	#303 SS,SQ KEY 1/4 X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 qt
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 ea
HA1025A21	WSHR,FELT .125" THK	1.000 ea
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 ea
HA3101FS55	THRUBOLT, 1/4-20 X 13.250 SS FOOD SAFE	4.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

FE-0000007	ZRTG FE ASSEMBLY	1.000 ea
PE-0000010	ZRTG PE ASSEMBLY	1.000 ea

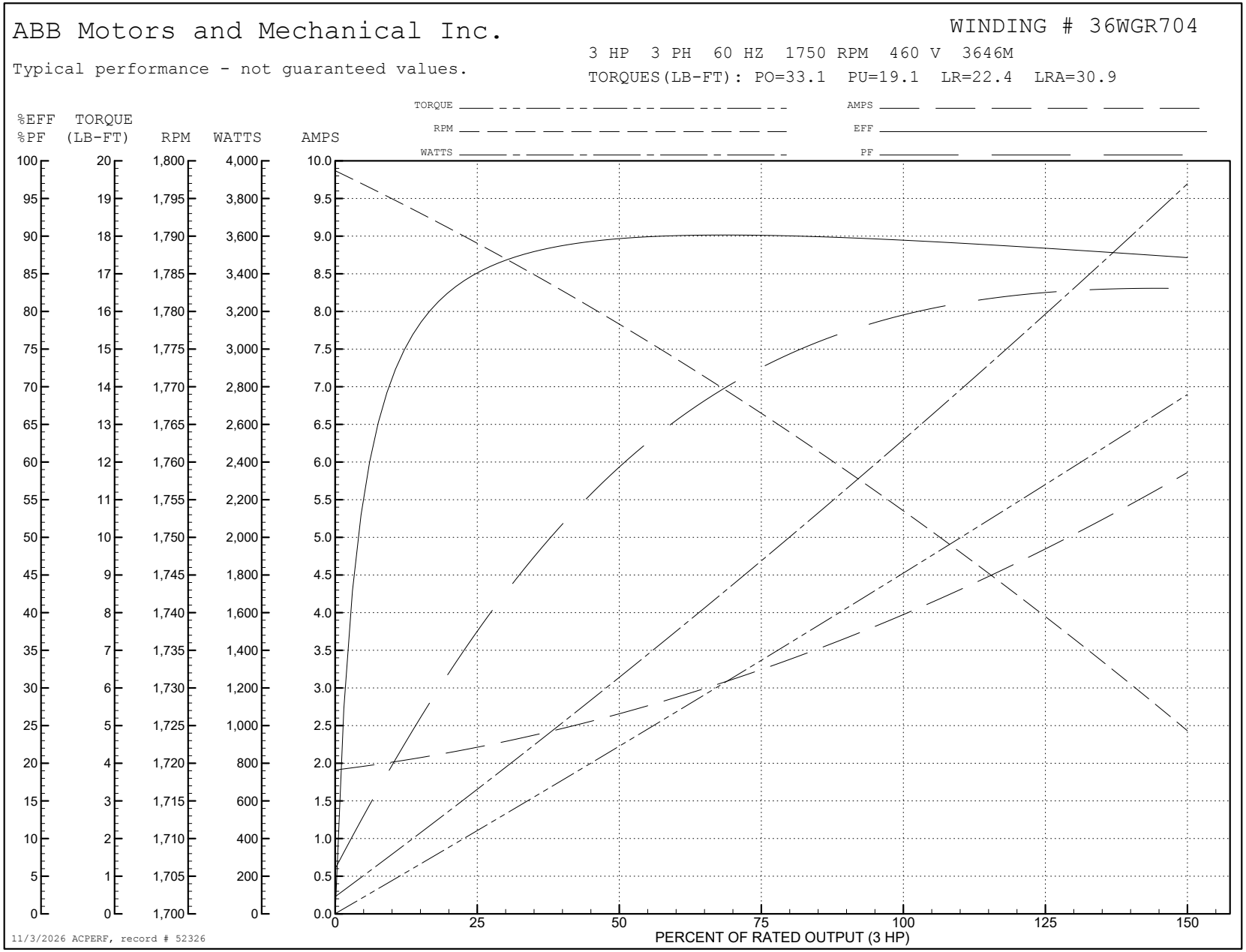
AC Induction Motor Performance Data
Record # 52326
Typical performance - not guaranteed values

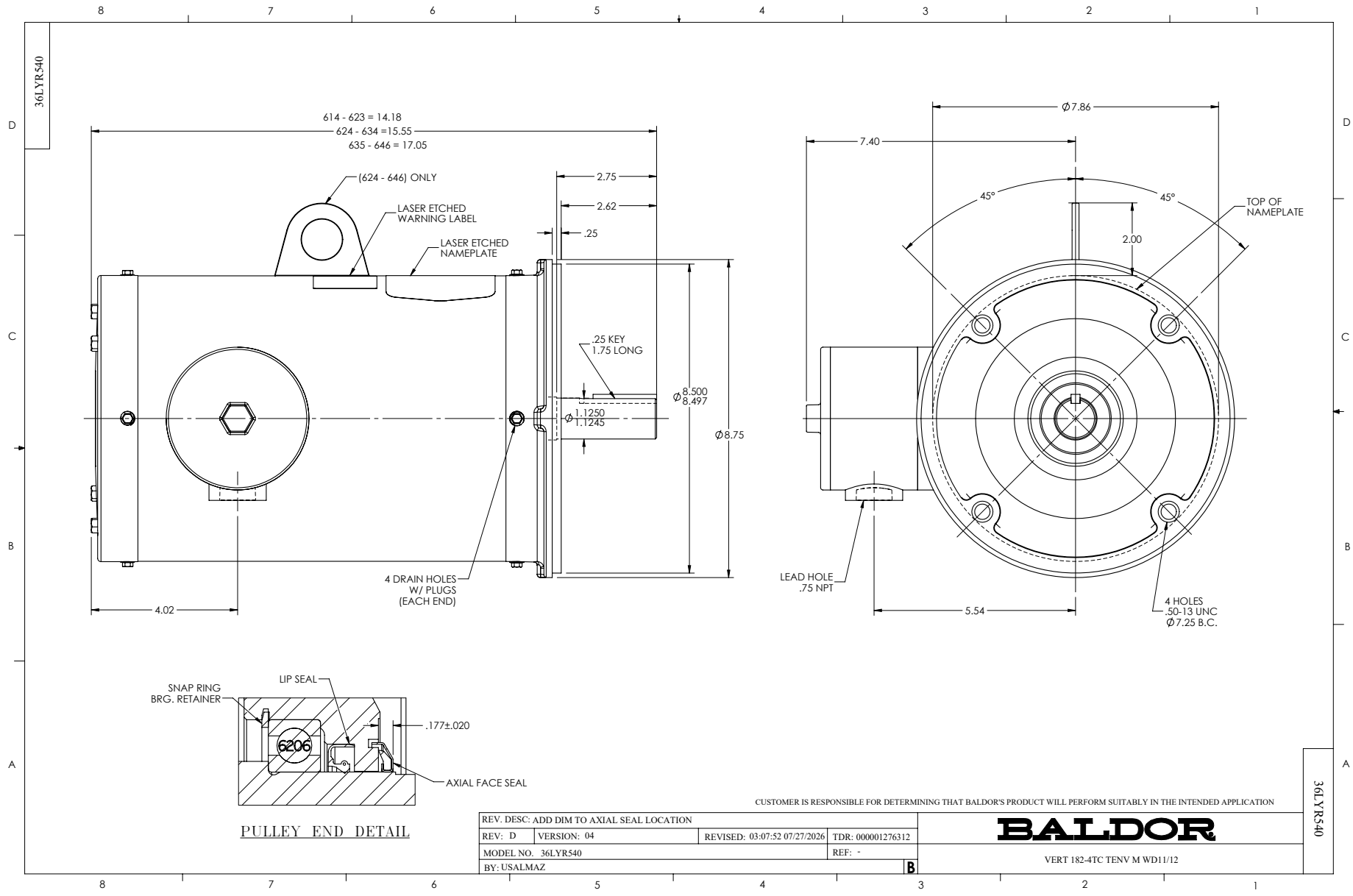
Winding: 36WGR704-R001	**Type:** 3646M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9.03 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8/4	**Breakdown Torque**	33.1 LB-FT
R.P.M.			1750	**Pull-up Torque**	19.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22.4 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	30.9 A
Service Factor (S.F.)			1.15	**No-load Current**	1.96 A
NEMA Nom. Eff.	89.5	**Power Factor**	76	**Line-line Res. @ 25ºC**	3.4828 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	101°C
S.F. Amps				**Temp. Rise @ S.F. Load**	125°C

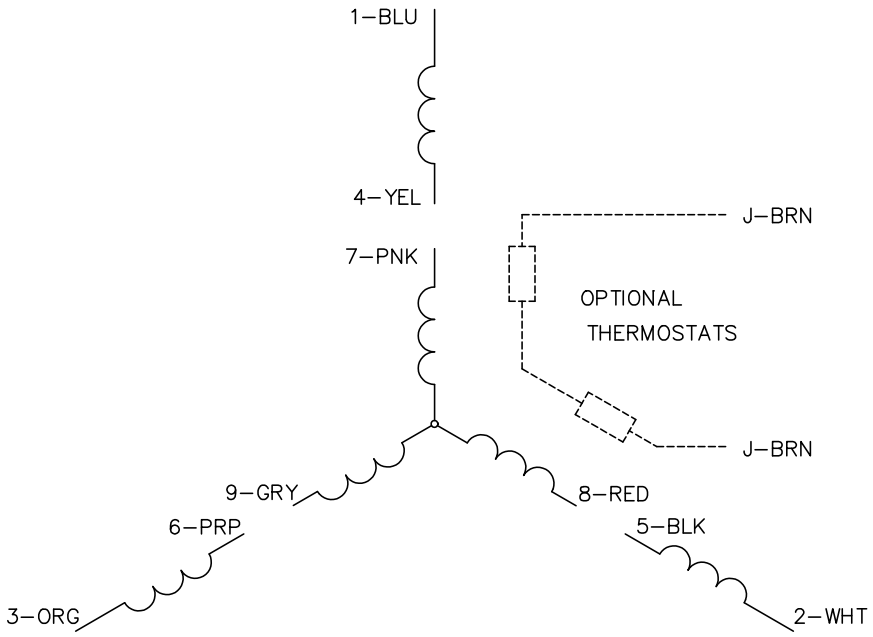
Load Characteristics 460 V, 60 Hz, 3 HP

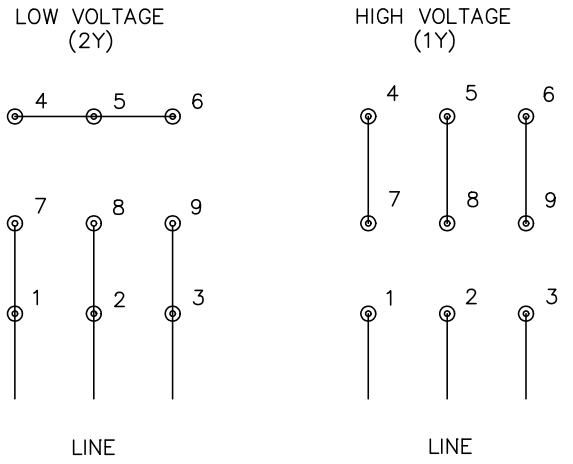
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	61	72	79	82	84	81
Efficiency	85.2	89.7	90.2	89.7	88.5	86.9	89
Speed	1788.3	1777.8	1766	1753.9	1740.2	1724.1	1746
Line amperes	2.17	2.62	3.3	4	4.85	5.82	4.51


ABB Motors and Mechanical Inc.
WINDING # 36WGR704
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1750 RPM 460 V 3646M
TORQUES(LB-FT): PO=33.1 PU=19.1 LR=22.4 LRA=30.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/3/2026 ACPERF, record # 52326


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