



Customer information packet

VFSWDNM3610T-E

3HP, 3500RPM, 3PH, 60HZ, 182TC, 3646M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	182TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
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
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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	K
Type	AC
Mech. spec.	36R540
Base	
Status	PRD/A
Elec. spec.	36WGR690
Layout	36LYR540
Eff. date	08-24-2022
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

NP1953N01									
CAT.NO.	VFSWDNM3610T-E								
SPEC.	36R540R690G1								
HP	3								
VOLTS	230/460								
AMPS	7/3.5								
R.P.M.	3500								
FRAME	182TC		HZ	60		PH	3		
SER.F.	1.15		CODE	P	DES.	A	CLASS	H	
NEMA NOM. EFF.	89.5		P.F.	92					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V						
DE	6206		ODE	6206					
ENCL	TENV	SN							
	4:1CT, 10:1VT								

Parts list

Part number	Description	Quantity
SA343505	SA 36R540R690G1	1.000 ea
RA331965	RA 36R540R690G1	1.000 ea
35CB1012A01	35-36 MACH MID SECTION - 3 PC. CONDUIT B	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
10XN1032FS08	HEX HD CAP SCREW 10-32 X 1/2 SS FOOD SAF	3.000 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) VITON .070X7.239	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 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) VITON .070X7.239	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	3.000 ea
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 ea
RM1070A14	O-RING, -010 VITON/FKM .070CS X .239ID	4.000 ea
35CB1511A01	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
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
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 PK1017A06	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 ea
HA5027A07	85XU1208S08 FACE DRAIN PINS BAGGED	1.000 ea
FE-0000015	ZRTG FE ASSEMBLY	1.000 ea
PE-0000016	ZRTG PE ASSEMBLY	1.000 ea

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. @ 25°C	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

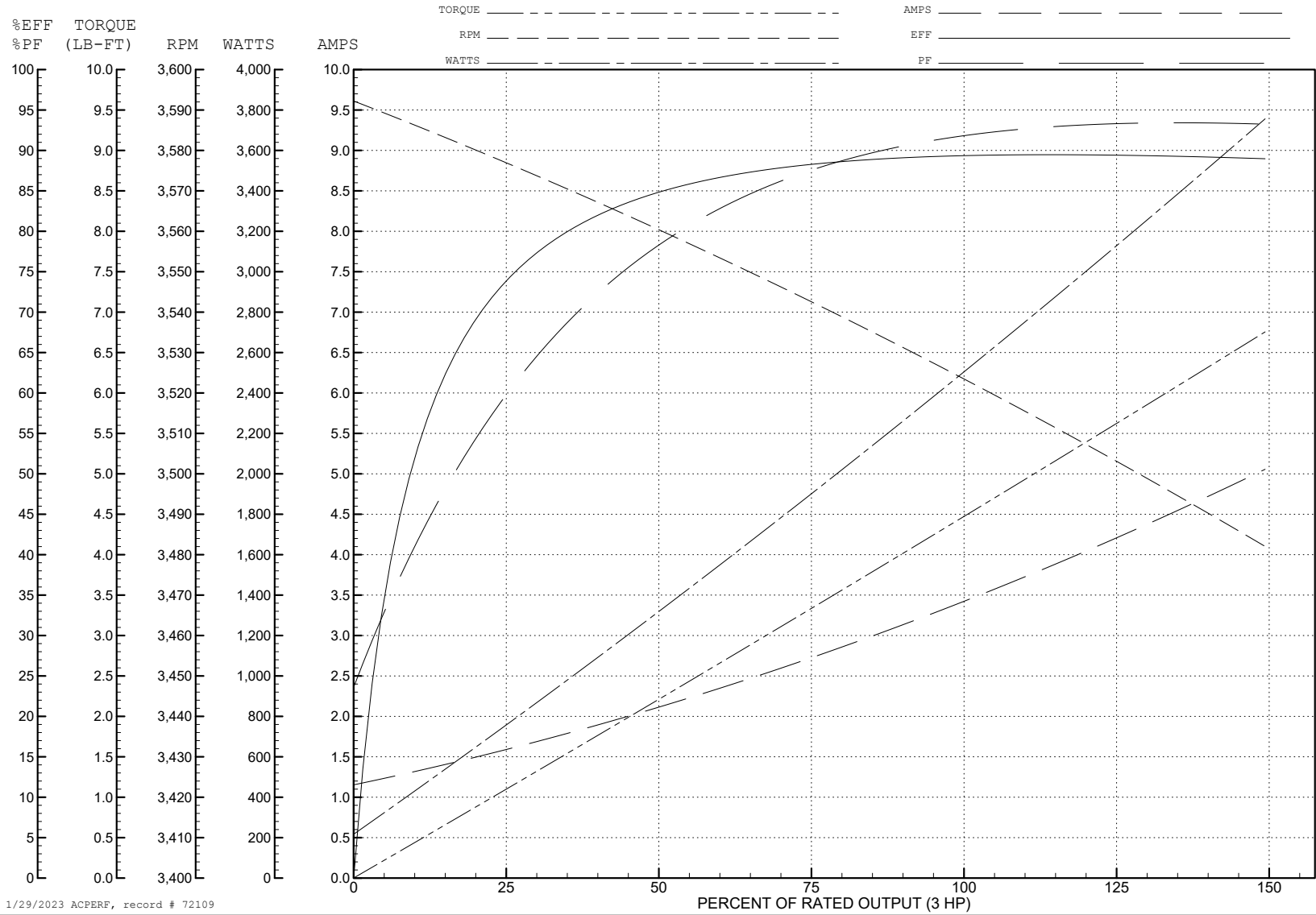
ABB Motors and Mechanical Inc.

WINDING # 36WGR690

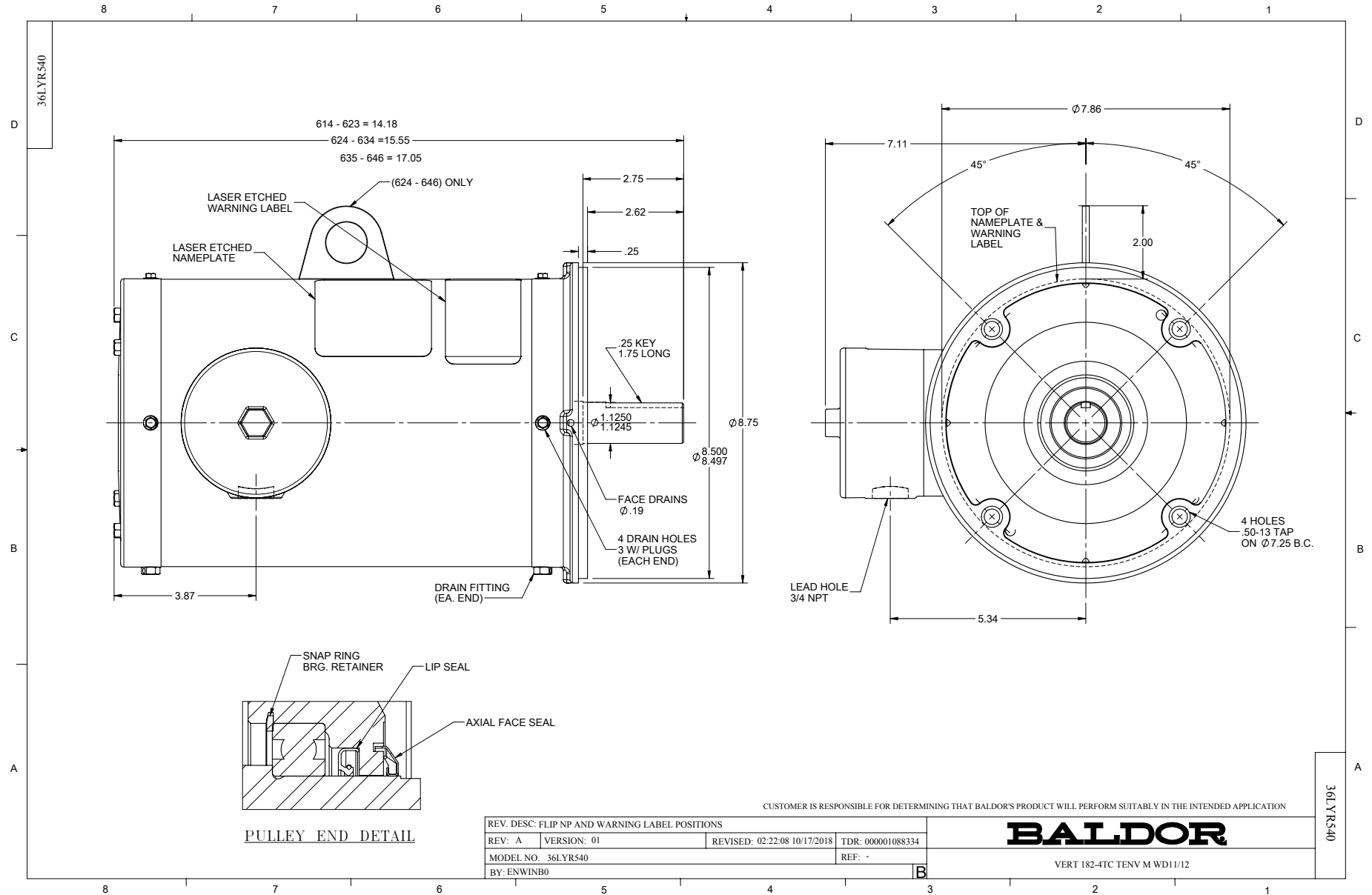
3 HP 3 PH 60 HZ 3500 RPM 460 V 3646M

Typical performance - not guaranteed values.

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



1/29/2023 ACPERF, record # 72109



CD0005

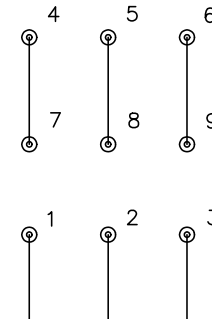


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS