

BALDOR® • RELIANCE 

Product Information Packet

VFSWDM3546T-E

1HP, 1770RPM, 3PH, 60HZ, 143TC, 3522M, TENV, F1

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGG184	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35E4717	Layout:	35LYE4717	Poles:	04	Created Date:	01-10-2022
Base:	N	Eff. Date:	08-26-2022	Leads:	9#18		

Specs			
Catalog Number:	VFSWDM3546T-E	Insulation Class:	H
Enclosure:	TENV	Inverter Code:	Inverter Ready
Frame:	143TC	KVA Code:	M
Frame Material:	Stainless Steel	Lifting Lugs:	No Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	1.000 HP @ 60 HZ	Motor Finish:	UNPAINTED
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3522M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	74
	CSA	Product Family:	WD All SS Encapsulated
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT

Current @ Voltage:	1.500 A @ 460.0 V	Shaft Extension Location:	Pulley End
	3.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	3.100 A @ 208.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1953A01										
CAT.NO.	VFSWDM3546T-E									
SPEC.	35E4717G184G1									
HP	1									
VOLTS	230/460									
AMP	3.34/1.67									
RPM	1770									
FRAME	143TC				HZ	60			PH	3
SER.F.	1.15		CODE	N	DES	B		CLASS	H	
NEMA-NOM-EFF	85.5			PF	66					
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			3.3		
DE	6205			ODE	6205					
ENCL	TENV		SN							
	SFA 3.5/1.75									

Parts List		
Part Number	Description	Quantity
SA402471	SA 35E4717G184G1	1.000 EA
RA393748	RA 35E4717G184G1	1.000 EA
35CB1012A01	35-36 MACH MID SECTION - 3 PC. CONDUIT B	1.000 EA
10XN1032FS08	HEX HD CAP SCREW 10-32 X 1/2 SS FOOD SAF	3.000 EA
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 EA
11XW1032G08	10-32 X .50, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 EA
35EP1940A03	FRONT TENV 205 BRG (STAINLESS)	1.000 EA
RM1070A25	O-RING, VITON/FKM .070CS X 6.190ID	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
35EP1935A02	PULLEY 56C/143-5TC ENCL 205 BRG	1.000 EA
RM1070A25	O-RING, VITON/FKM .070CS X 6.190ID	1.000 EA
HW4600G01	.984X1.499X.25 VITON SLICK SERIES LIP	1.000 EA
HW4600E99	25 X 42 X 6 AFX SEAL, GRAPHITE INFUSED V	1.000 EA
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
RM1070A26	O-RING,4.5MM I.D.X1.5MM C.S. (VITON)	4.000 EA
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 EA
35CB1511A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	1.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 QT

Parts List (continued)		
Part Number	Description	Quantity
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
HA3100FS25	THRUBOLT, 10-32 X 9.500 SS FOOD SAFE	4.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2200bx) 4/22	1.000 EA
HA5027A07	85XU1208S08 FACE DRAIN PINS BAGGED	1.000 EA
FE-0000005	ZRTG FE ASSEMBLY	1.000 EA
PE-0000006	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 87470

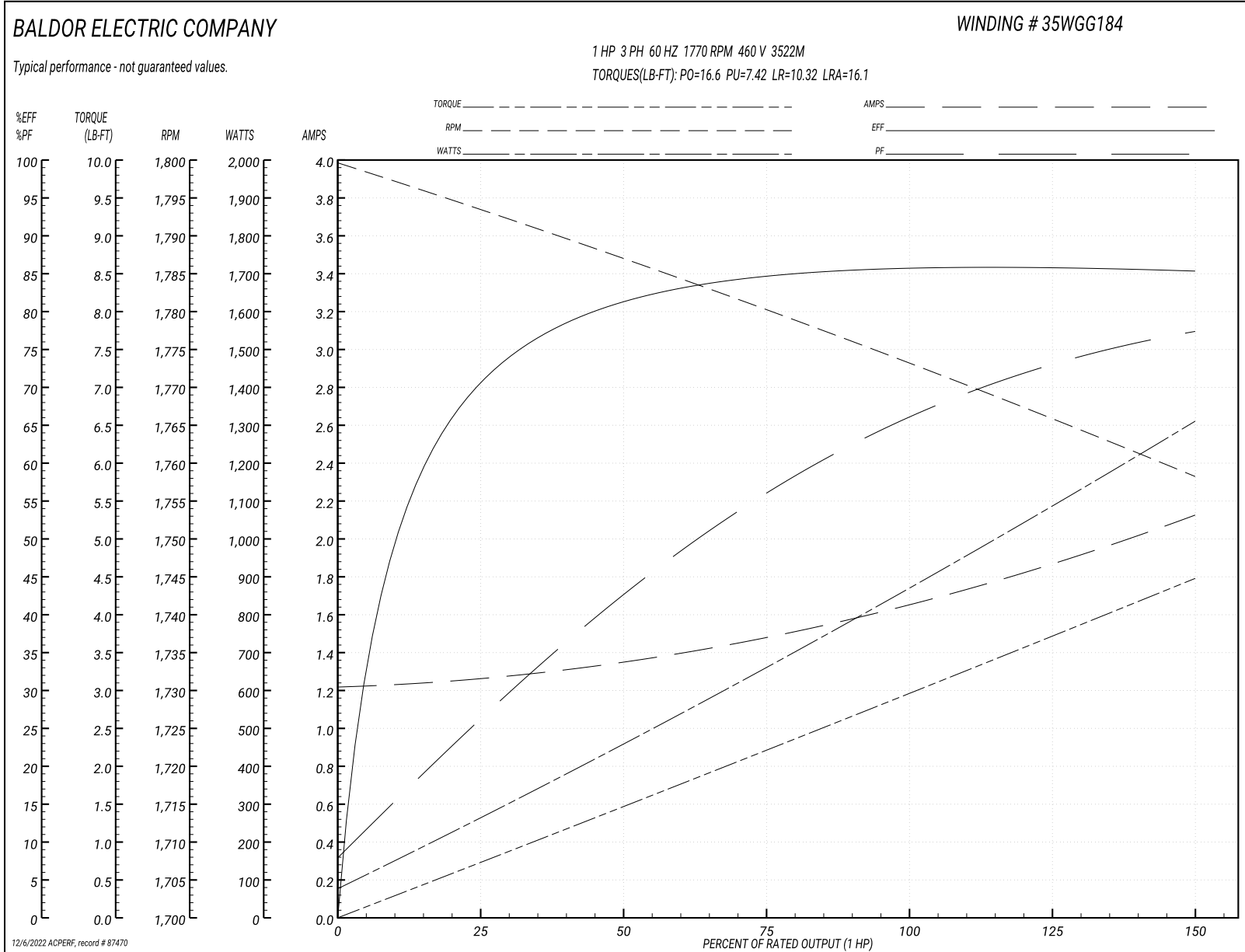
Typical performance - not guaranteed values

Winding: 35WGG184-R004		Type: 3522M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	1	Full Load Torque	2.99 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	3.34/1.67	Breakdown Torque	16.6 LB-FT		
R.P.M.	1770	Pull-up Torque	7.42 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	10.32 LB-FT	
NEMA Design Code	B KVA Code	N	Starting Current	16.1 A	
Service Factor (S.F.)	1.15	No-load Current	1.23 A		
NEMA Nom. Eff.	85.5	Power Factor	66	Line-line Res. @ 25°C	14.4 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	63°C		
S.F. Amps		Temp. Rise @ S.F. Load	71°C		
		Locked-rotor Power Factor	59.4		
		Rotor inertia	0.159 lb-ft ²		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	56	66	73	78	72
Efficiency	70.8	81.2	84.5	85.9	85.8	85.2	85.5
Speed	1793	1786	1781	1773	1766	1758	1768
Line amperes	1.25	1.34	1.49	1.67	1.87	2.12	1.75

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 89717

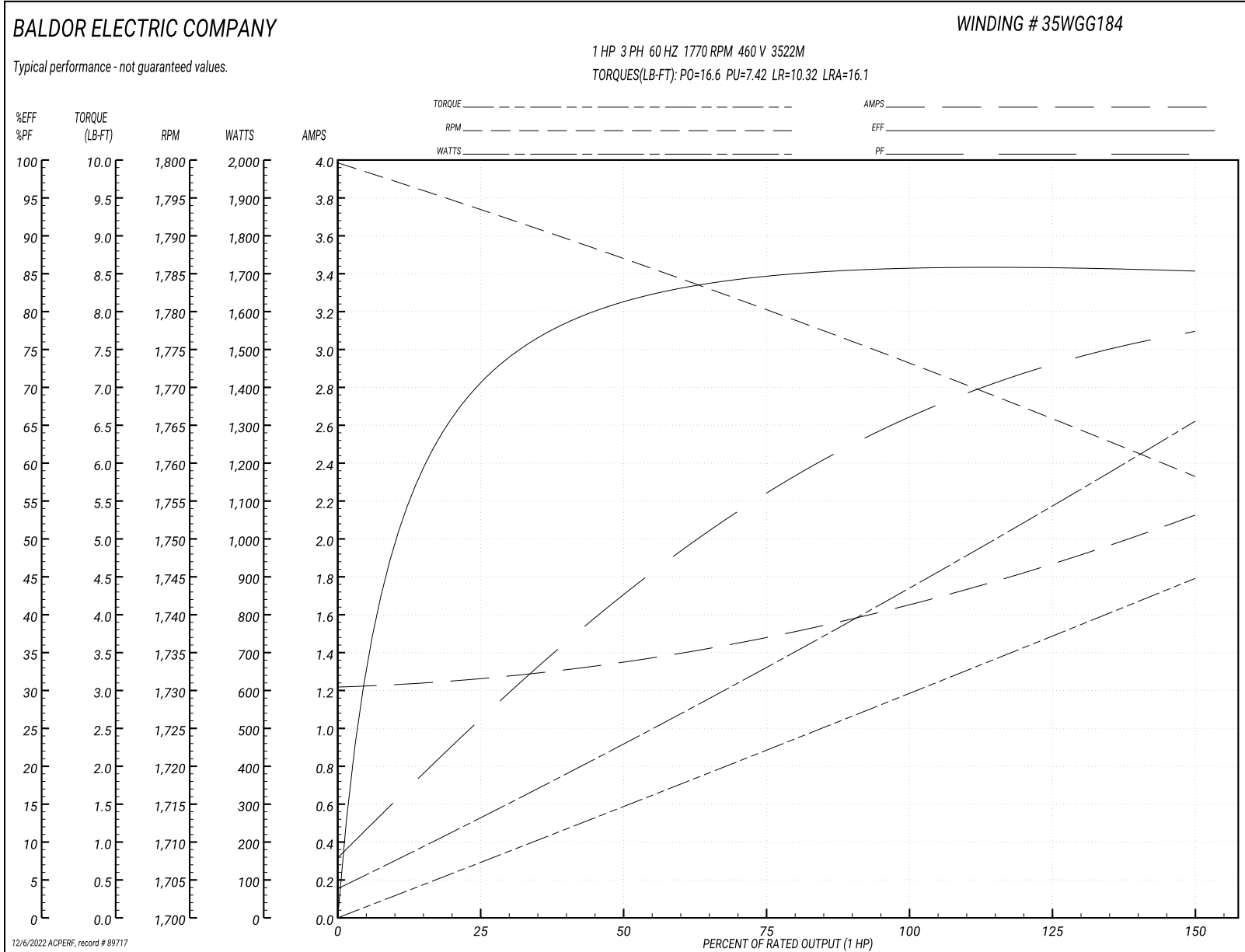
Typical performance - not guaranteed values

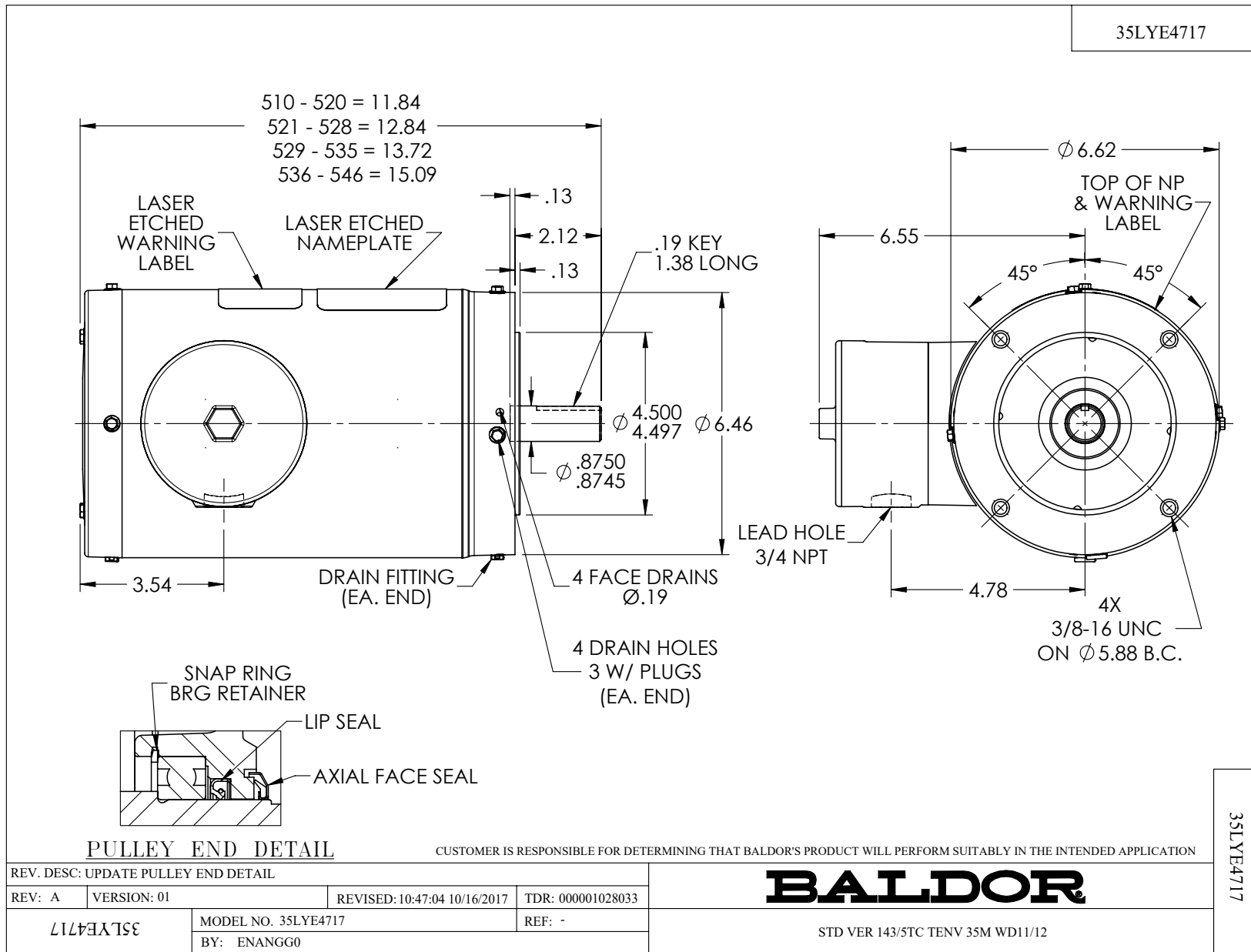
Winding: 35WGG184-R010		Type: 3522M	Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1	Full Load Torque	2.99 LB-FT	
Volts	208-230/460	Start Configuration	direct on line	
Full Load Amps	3.3-3.34/1.67	Breakdown Torque	16.6 LB-FT	
R.P.M.	1770	Pull-up Torque	7.42 LB-FT	
Hz	60 Phase	Locked-rotor Torque	10.32 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	16.1 A	
Service Factor (S.F.)	1.15	No-load Current	1.23 A	
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	14.4 Ω	
Rating - Duty	65C AMB-CONT	Temp. Rise @ Rated Load	63°C	
S.F. Amps	3.6-3.5/1.75	Temp. Rise @ S.F. Load	71°C	
		Locked-rotor Power Factor	59.3666	
		Rotor inertia	0.159 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	56	66	73	78	70
Efficiency	70.8	81.2	84.5	85.9	85.8	85.2	85.8
Speed	1793	1786	1781	1773	1766	1758	1769
Line amperes	1.25	1.34	1.49	1.67	1.87	2.12	1.79

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values

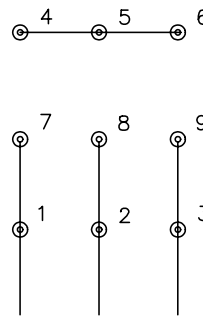




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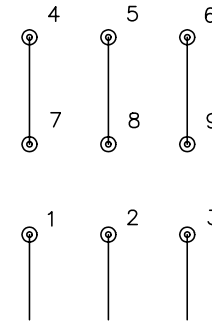


LOW VOLTAGE
(2Y)



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005