

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VFSWDNM3558T-E**

**2HP,1750RPM,3PH,60HZ,145TC,3546M,TENV,F1**

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGL289	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35E4717	Layout:	35LYE4717	Poles:	04	Created Date:	07-11-2017
Base:	N	Eff. Date:	08-20-2019	Leads:	9#18		

Specs			
Catalog Number:	VFSWDM3558T-E	Inverter Code:	Not Inverter
Enclosure:	TENV	KVA Code:	M
Frame:	145TC	Lifting Lugs:	No Lifting Lugs
Frame Material:	Stainless Steel	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	2.000 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:	3546M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	78
	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:	2.800 A @ 460.0 V	Shaft Extension Location:	Pulley End

	5.600 A @ 230.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Design Code:</b>	B	<b>Shaft Rotation:</b>	Reversible
<b>Drip Cover:</b>	No Drip Cover	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Duty Rating:</b>	CONT	<b>Speed Code:</b>	Single Speed
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Motor Standards:</b>	NEMA
<b>Feedback Device:</b>	NO FEEDBACK	<b>Starting Method:</b>	Direct on line
<b>Front Face Code:</b>	Standard	<b>Thermal Device - Bearing:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Thermal Device - Winding:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Insulation Class:</b>	H	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

<b>Nameplate NP1953A01</b>										
<b>CAT.NO.</b>	VFSWDM3558T-E									
<b>SPEC.</b>	35E4717L289G1									
<b>HP</b>	2									
<b>VOLTS</b>	230/460									
<b>AMP</b>	5.6/2.8									
<b>RPM</b>	1750									
<b>FRAME</b>	145TC				<b>HZ</b>	60			<b>PH</b>	3
<b>SER.F.</b>	1.15		<b>CODE</b>	M	<b>DES</b>	B		<b>CLASS</b>	H	
<b>NEMA-NOM-EFF</b>	88.5			<b>PF</b>	78					
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>	010A				<b>USABLE AT 208V</b>					
<b>DE</b>	6205			<b>ODE</b>	6205					
<b>ENCL</b>	TENV		<b>SN</b>							
	4:1CT, 10:1VT									

Parts List		
Part Number	Description	Quantity
SA343211	SA 35E4717L289G1	1.000 EA
RA331658	RA 35E4717L289G1	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
35CB1511A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	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
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

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 EA
HA3100FS61	THRUBOLT, 10-32 X 11.750 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 (1200/bx) 1/21	1.000 EA
HA5027A07	85XU1208S08 FACE DRAIN PINS BAGGED	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000002	ZRTG PE ASSEMBLY	1.000 EA
HA1025A03	FELT WSH 2.1875 OD X 1.170 ID X .25 #321	1.000 EA

**AC Induction Motor Performance Data**

Record # 51199

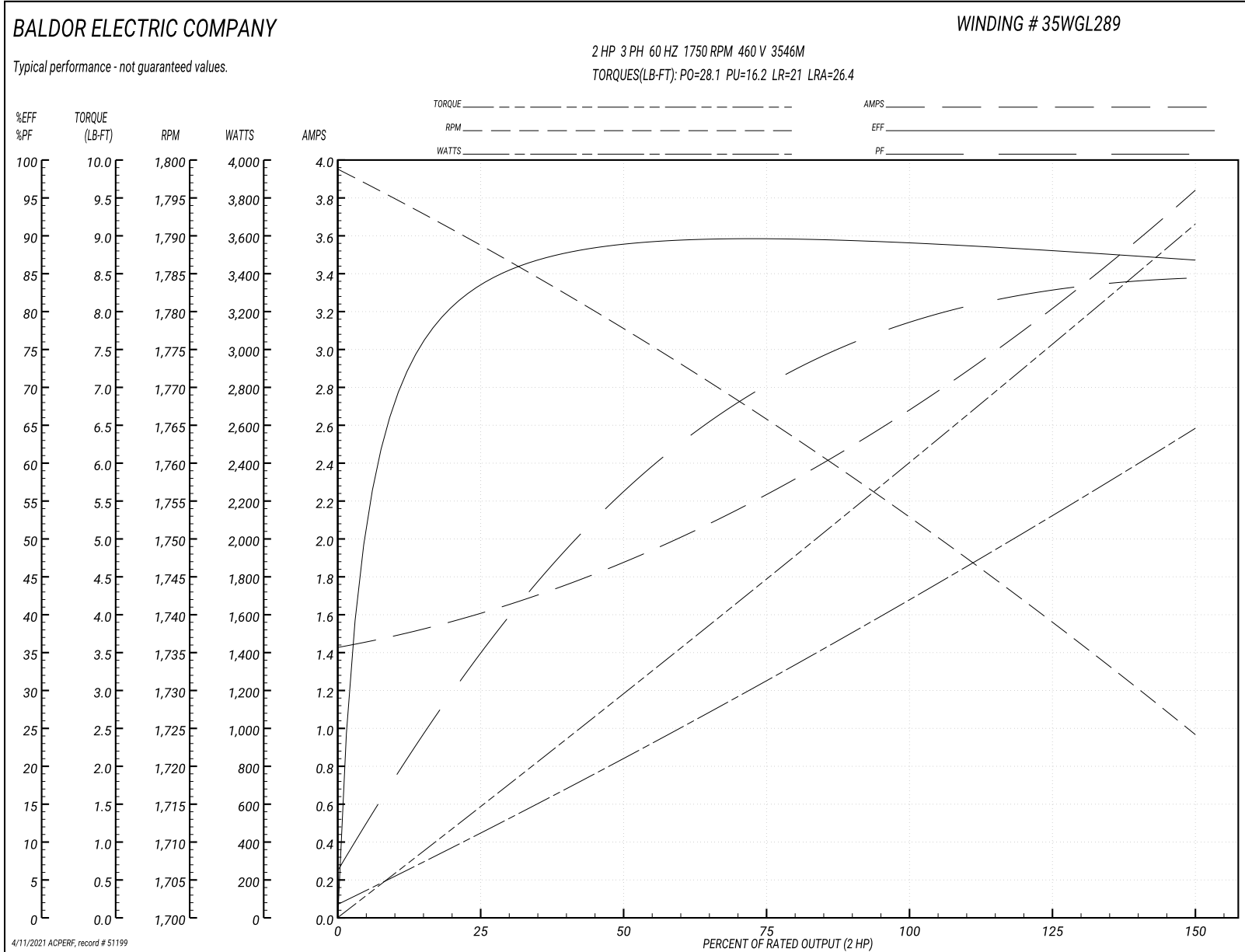
Typical performance - not guaranteed values

<b>Winding: 35WGL289-R001</b>		<b>Type: 3546M</b>		<b>Enclosure: TENV</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	2	<b>Full Load Torque</b>	6.02 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	5.6/2.8	<b>Breakdown Torque</b>	28.1 LB-FT		
<b>R.P.M.</b>	1750	<b>Pull-up Torque</b>	16.2 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	21 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	M	<b>Starting Current</b>	26.4 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	1.45 A	
<b>NEMA Nom. Eff.</b>	88.5 <b>Power Factor</b>	78	<b>Line-line Res. @ 25°C</b>	6.055 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	95°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	116°C	

**Load Characteristics 460 V, 60 Hz, 2 HP**

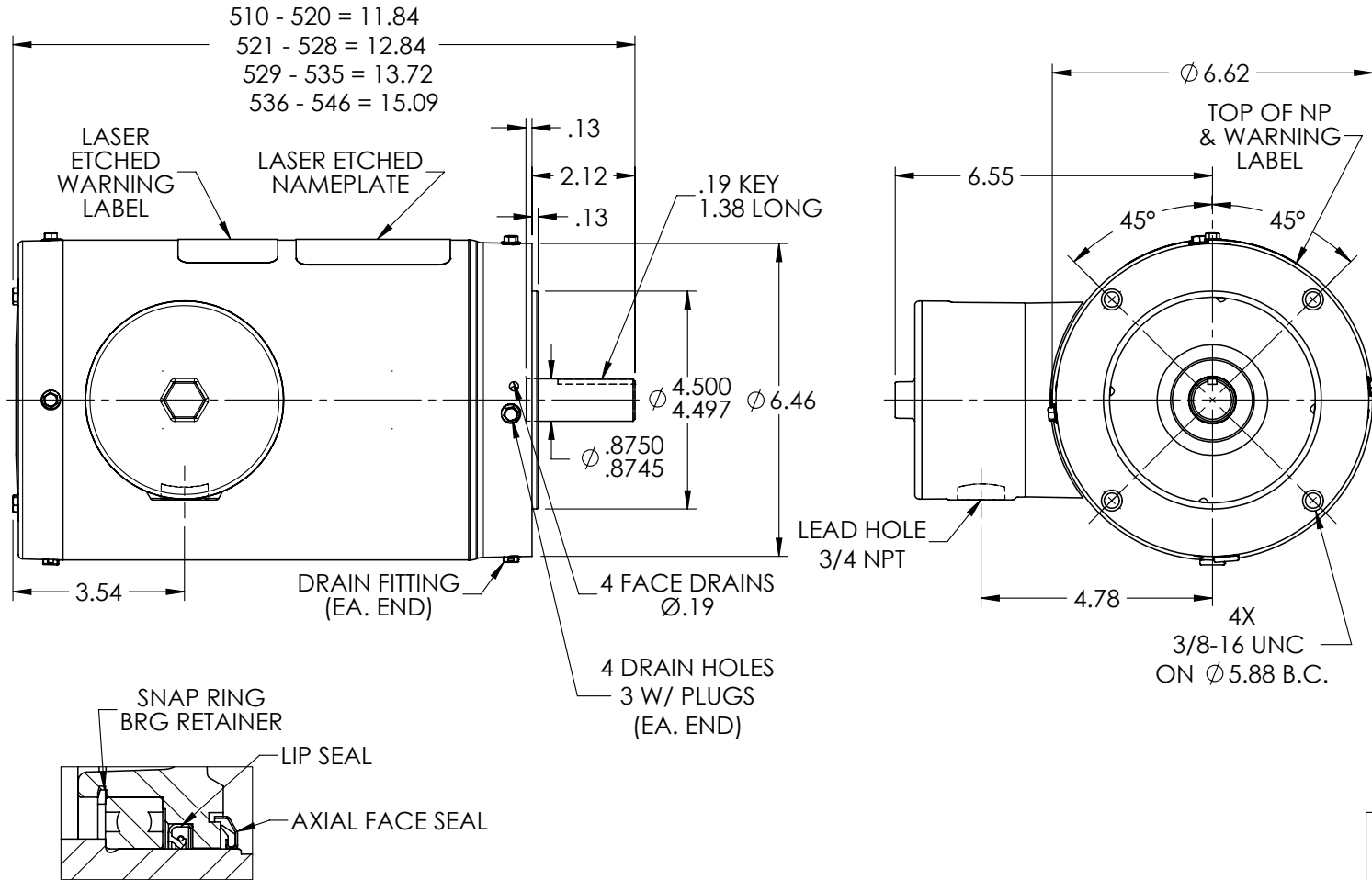
<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	36	57	70	78	82	85	80
<b>Efficiency</b>	83.4	88.6	89.6	89.2	88.2	86.8	88.6
<b>Speed</b>	1788.3	1777.3	1765.6	1753	1739.2	1723.9	1745
<b>Line amperes</b>	1.59	1.86	2.24	2.71	3.24	3.82	3.03

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values





35LYE4717



**PULLEY END DETAIL**

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE PULLEY END DETAIL

REV: A    VERSION: 01    REVISED: 10:47:04 10/16/2017    TDR: 000001028033

35LYE4717

MODEL NO. 35LYE4717  
 BY: ENANGGO

REF: -

**BALDOR**

STD VER 143/5TC TENV 35M WD11/12

35LYE4717

CD0005

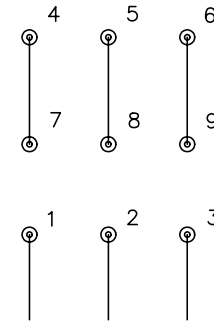


LOW VOLTAGE  
(2Y)



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

90000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005