

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EMVM3546D**

**.75KW,1760RPM,3PH,60HZ,D80D,3520M,TEFC,B**

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGL315	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35Q176	Layout:	35LYQ176	Poles:	04	Created Date:	12-15-2015
Base:	N	Eff. Date:	09-28-2018	Leads:	9#18		

Specs			
Catalog Number:	EMVM3546D	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	D80D	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	L
Motor Letter Type:	Three Phase	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.750 KW @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
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:	3520M
XP Division:	Not Applicable	Mounting Arrangement:	B5
Agency Approvals:	CSA	Power Factor:	71
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	D-Flange
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Tapped & Key
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT

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

Nameplate NP3386L			
CAT.NO.	EMVM3546D		
SPEC.	35Q176L315G1		
IEC FRAME	D80D	KW	.75
VOLTS	230/460		
AMP	3/1.5		
RPM	1760	ENCL	TEFC
HZ	60	PH	3
SER.F.	1.15	DES	B
NEMA-NOM-EFF	85.5	I.P.	54
RATING	40C AMB-CONT		
CC	010A	USABLE AT 208V	3.1
DE	6205	ODE	6203
SER. #			
	SFA 3.4/1.7		

Parts List		
Part Number	Description	Quantity
SA312108	SA 35Q176L315G1	1.000 EA
RA299546	RA 35Q176L315G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP1518A01	MODEL 35 IEC FF165 MACH. 80 & D90 205 BR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4600A30	GARLOCK 63X273 SINGLE LIP SEAL	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2504E10	KEY, 6 MM X 1.000	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 LB

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A80	THRUBOLT 10-32 X 7.500	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3386L	ALUM SUPER-E IEC UL CSA-EEV CC	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 54480

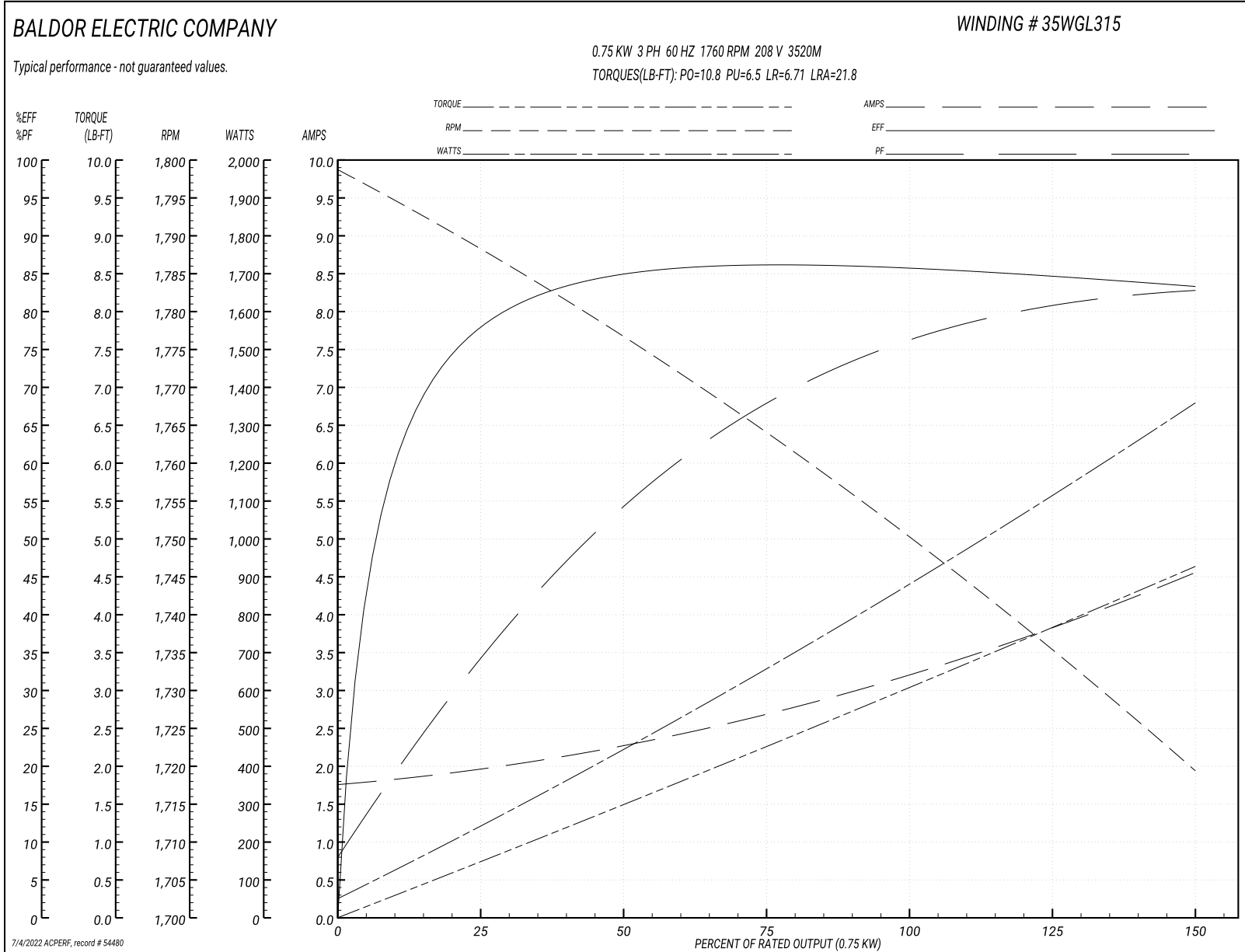
Typical performance - not guaranteed values

<b>Winding: 35WGL315-R013</b>		<b>Type: 3520M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>208 V, 60 Hz: Low Voltage Connection</b>		
<b>Rated Output (KW)</b>	.75	<b>Full Load Torque</b>	3.02 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	3/1.5	<b>Breakdown Torque</b>	10.8 LB-FT		
<b>R.P.M.</b>	1760	<b>Pull-up Torque</b>	6.5 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	6.71 LB-FT
<b>NEMA Design Code</b>	B	<b>KVA Code</b>	L	<b>Starting Current</b>	21.8 A
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.79 A		
<b>NEMA Nom. Eff.</b>	85.5	<b>Power Factor</b>	71	<b>Line-line Res. @ 25°C</b>	3.78 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	36°C	
<b>S.F. Amps</b>	3.4/1.7		<b>Temp. Rise @ S.F. Load</b>	44°C	
			<b>Locked-rotor Power Factor</b>	53.5	
			<b>Rotor inertia</b>	0.118 LB-FT <sup>2</sup>	

**Load Characteristics 208 V, 60 Hz, 0.75 KW**

<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>	35	55	68	75	81	83	79
<b>Efficiency</b>	78.2	84.9	86.2	85.9	84.8	83.3	85.2
<b>Speed</b>	1788	1776	1764	1751	1736	1719	1743
<b>Line amperes</b>	1.92	2.27	2.69	3.22	3.83	4.54	3.49

Performance Graph at 208V, 60Hz, 0.75KW Typical performance - Not guaranteed values





**AC Induction Motor Performance Data**

Record # 54482

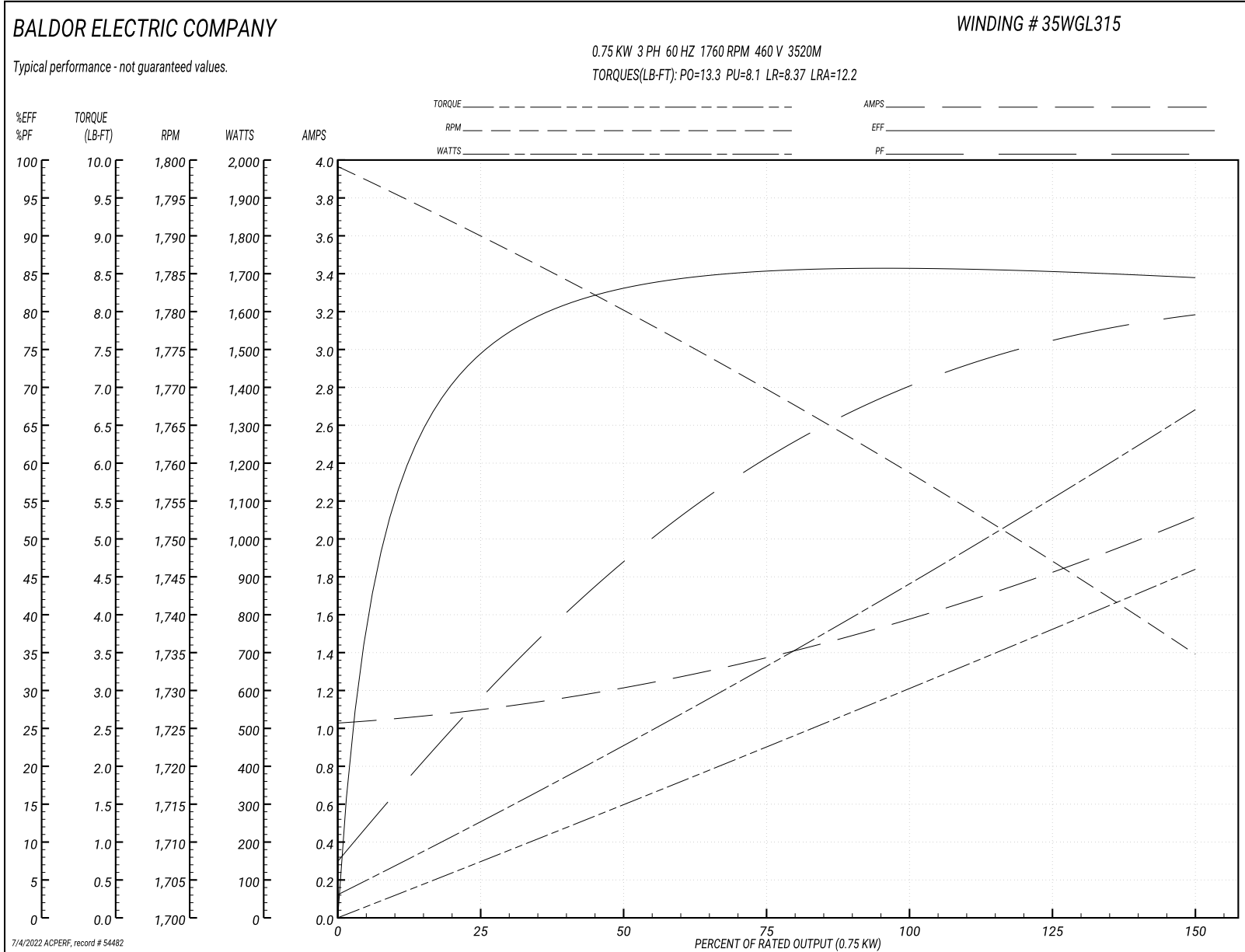
Typical performance - not guaranteed values

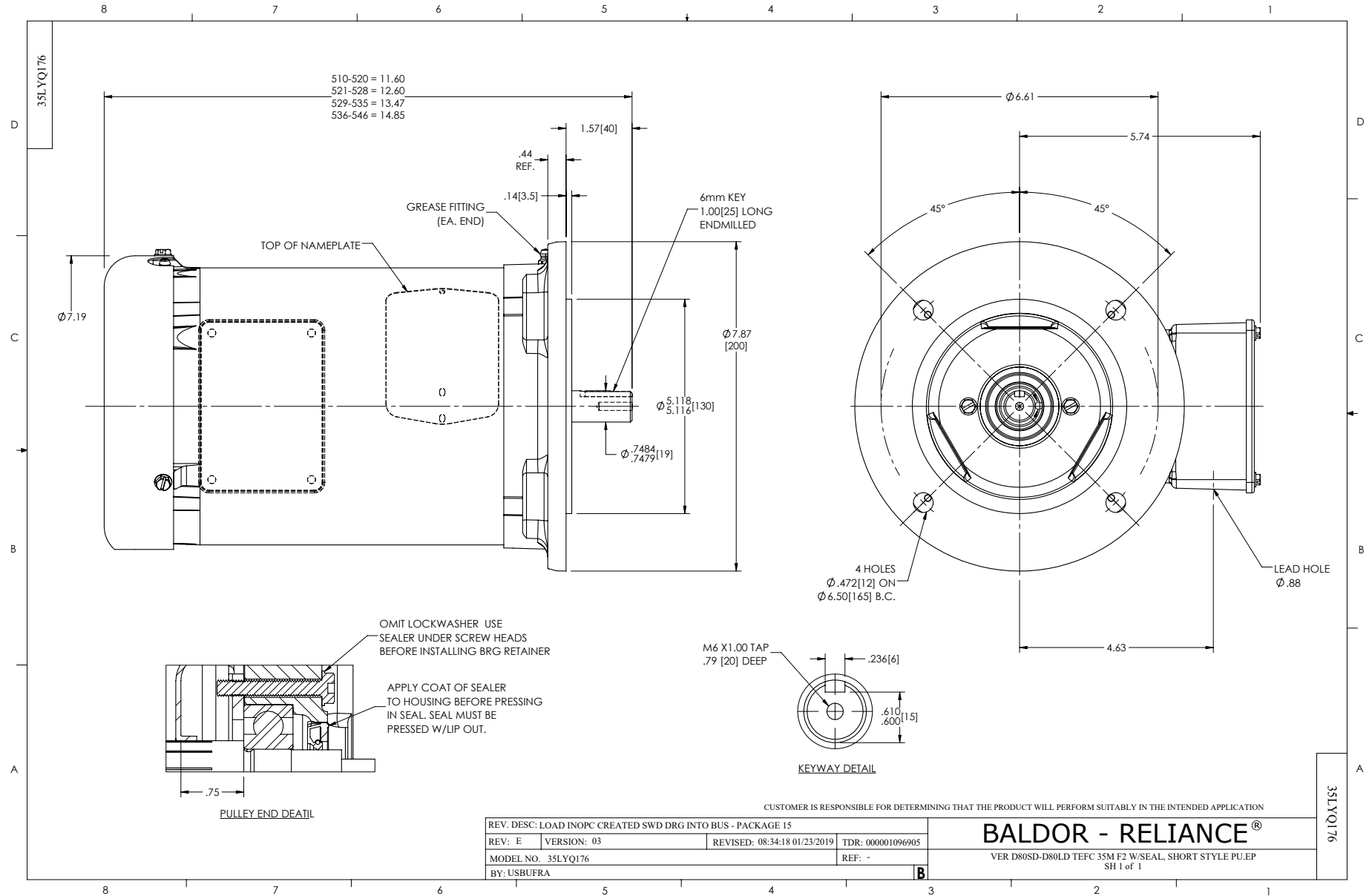
<b>Winding: 35WGL315-R013</b>		<b>Type: 3520M</b>		<b>Enclosure: TEFC</b>		
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>			
<b>Rated Output (KW)</b>	.75	<b>Full Load Torque</b>	3 LB-FT			
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line			
<b>Full Load Amps</b>	3/1.5	<b>Breakdown Torque</b>	13.3 LB-FT			
<b>R.P.M.</b>	1760	<b>Pull-up Torque</b>	8.1 LB-FT			
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	8.37 LB-FT		
<b>NEMA Design Code</b>	<b>B KVA Code</b>	L	<b>Starting Current</b>	12.2 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.04 A			
<b>NEMA Nom. Eff.</b>	85.5 <b>Power Factor</b>	71	<b>Line-line Res. @ 25°C</b>	15.1 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	36°C			
<b>S.F. Amps</b>	3.4/1.7	<b>Temp. Rise @ S.F. Load</b>	42°C			
		<b>Locked-rotor Power Factor</b>	53.5			
		<b>Rotor inertia</b>	0.118 LB-FT <sup>2</sup>			

**Load Characteristics 460 V, 60 Hz, 0.75 KW**

<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>	30	47	61	69	76	80	75
<b>Efficiency</b>	74.7	83.2	85.5	85.8	85.3	84.6	85.4
<b>Speed</b>	1790	1780	1770	1759	1747	1735	1754
<b>Line amperes</b>	1.08	1.22	1.37	1.58	1.82	2.11	1.69

Performance Graph at 460V, 60Hz, 0.75KW Typical performance - Not guaranteed values





CD0005

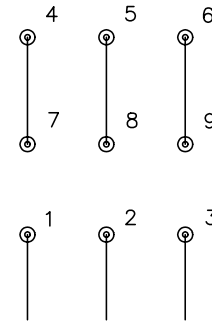


LOW VOLTAGE  
(2Y)



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
900000		FILE: AAA00005140	MDL: -
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**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005