

**BALDOR • RELIANCE**

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# Customer information packet

## VEM3211T

3HP, 1765RPM, 3PH, 60HZ, 182TC, 3630M, ODP, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	ODP
Frame	182TC
Frame Material	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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM 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	8.400 A @ 230.0 V 8.500 A @ 208.0 V 4.200 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

## Part detail

Revision	L
Type	AC
Mech. spec.	36Q489
Base	
Status	PRD/A
Elec. spec.	36WGS658
Layout	36LYQ489
Eff. date	09-23-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-06-2015

Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No 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	3630M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.54 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	No Slinger
Speed	1765 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**

<b>NP3553LUA</b>									
<b>CAT.NO.</b>	VEM3211T								
<b>SPEC.</b>	36Q489S658G1								
<b>HP</b>	3								
<b>VOLTS</b>	230/460								
<b>AMPS</b>	8.4/4.2								
<b>RPM</b>	1765								
<b>FRAME</b>	182TC	<b>HZ</b>	60	<b>PH</b>	3				
<b>SF</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CLASS</b>	F		
<b>NEMA NOM. EFF</b>	89.5	<b>PF</b>	74						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>ENCL</b>	ODP	<b>SN</b>							
<b>DE</b>	6206	<b>ODE</b>	6205						
<b>VPWM INVERTER READY</b>									
<b>CT30-60(2:1) VT3-60(20:1)</b>									
<b>USABLE AT</b>	50HZ 3HP 190/380V 8.6/4.3A							SF1.0	

**AC Induction Motor Performance Data**

Record # 33604

Typical performance - not guaranteed values

Winding: 36WGS658-R001		Type: 3630M	Enclosure: OPSB	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)		3	Full Load Torque	8.87 LB-FT
Volts		230/460	Start Configuration	direct on line
Full Load Amps		8.4/4.2	Breakdown Torque	37.4 LB-FT
R.P.M.		1765	Pull-up Torque	17.3 LB-FT
Hz	60 Phase	3	Locked-rotor Torque	21.2 LB-FT
NEMA Design Code	B KVA Code	K	Starting Current	32.3 A
Service Factor (S.F.)		1.15	No-load Current	2.43 A
NEMA Nom. Eff.	89.5 Power Factor	74	Line-line Res. @ 25°C	3.8716 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load	24°C
S.F. Amps			Temp. Rise @ S.F. Load	28°C
			Locked-rotor Power Factor	43
			Rotor inertia	0.279 LB-FT <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 3 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	73	79	81	77
Efficiency	80.2	87.5	89.5	89.7	89.5	88.7	89.6
Speed	1791.1	1783	1774.5	1765.5	1755.7	1744.8	1760
Line amperes	2.6	2.99	3.54	4.25	4.97	5.83	4.68

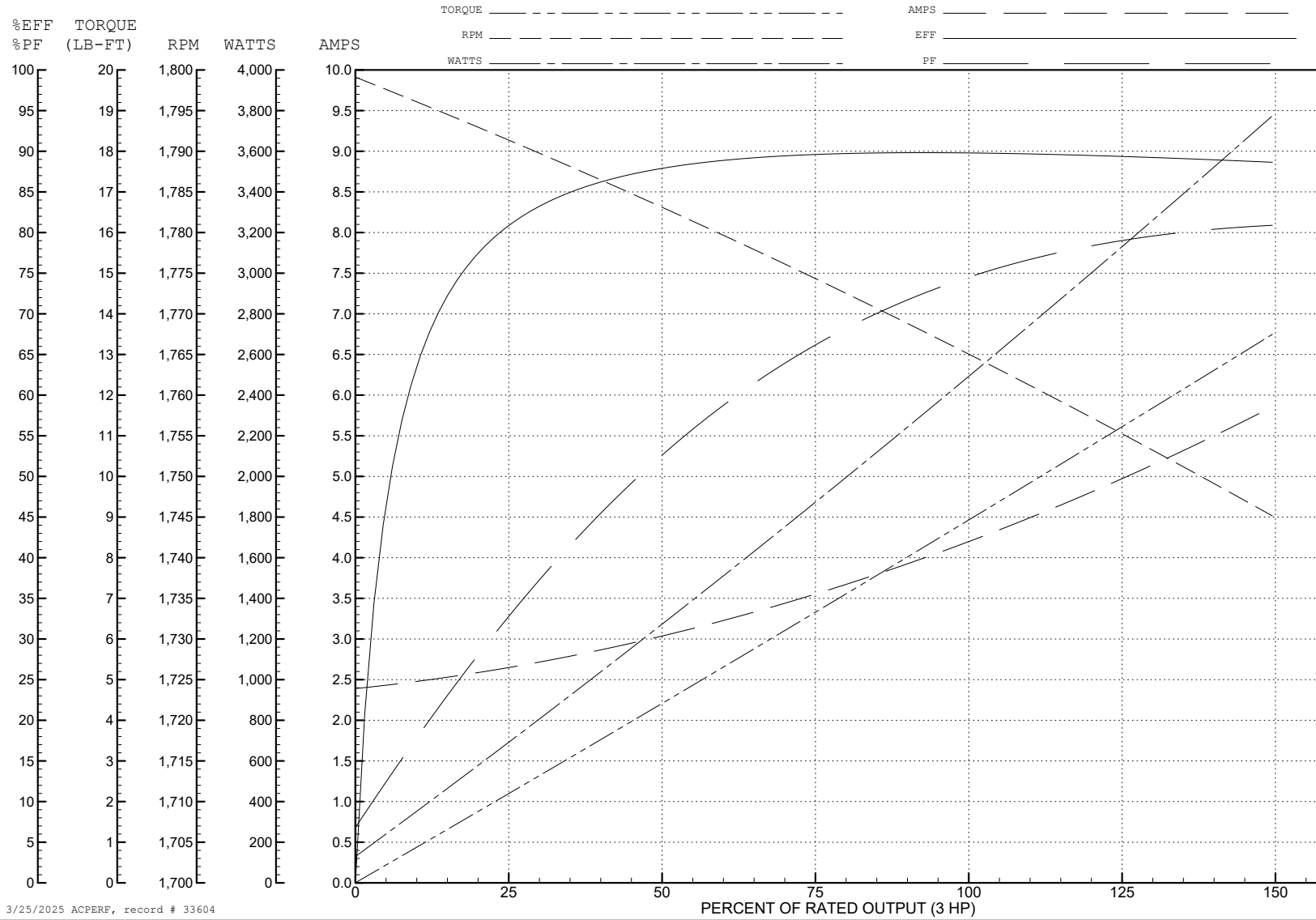
ABB Motors and Mechanical Inc.

WINDING # 36WGS658

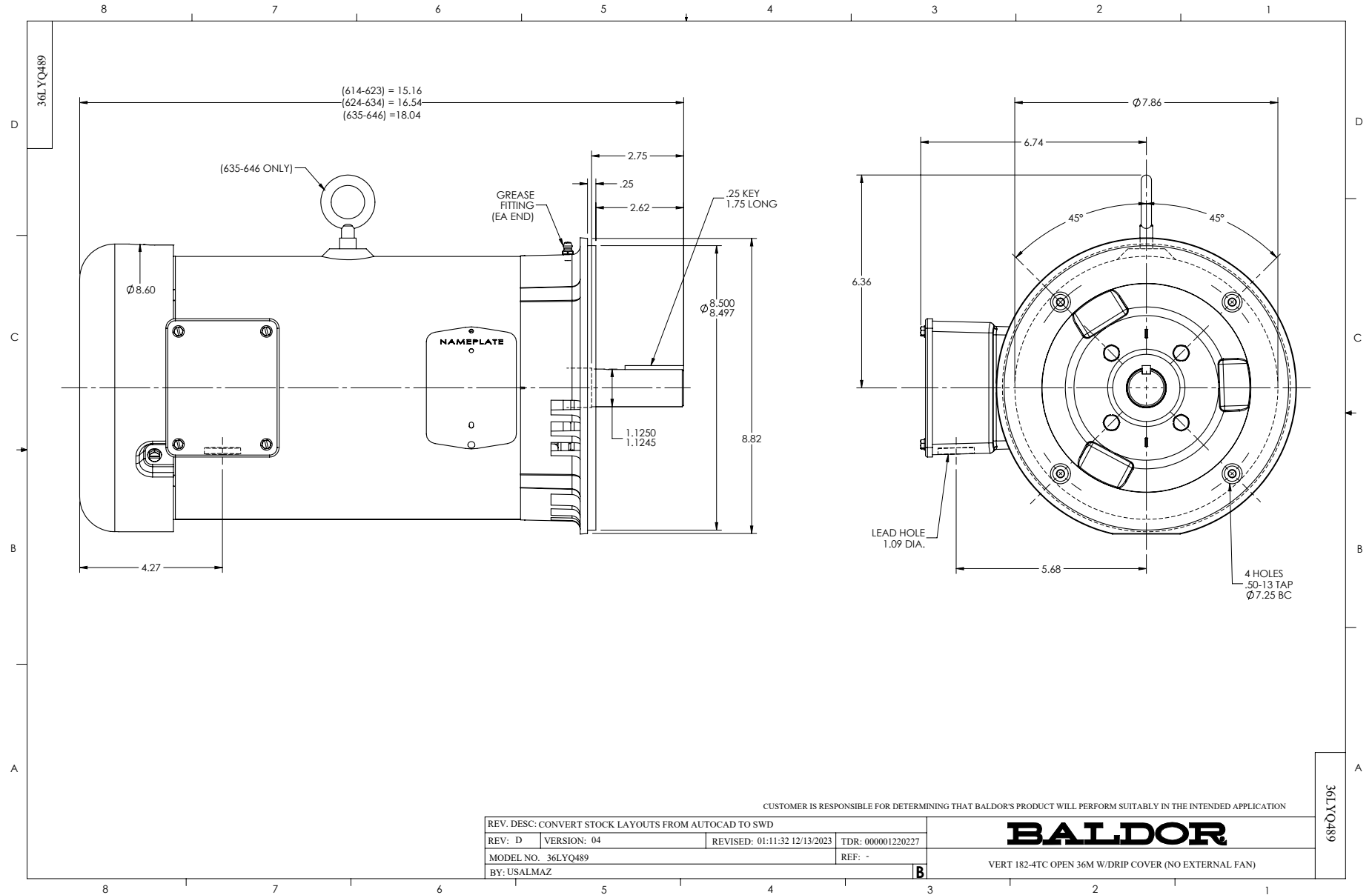
3 HP 3 PH 60 HZ 1765 RPM 460 V 3630M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=37.4 PU=17.3 LR=21.2 LRA=32.3



3/25/2025 ACPERF, record # 33604

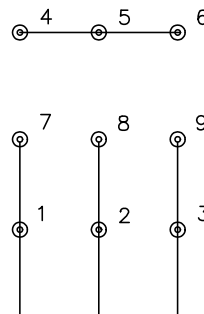




CD0005

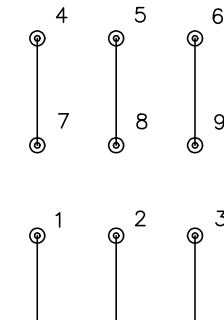


LOW VOLTAGE  
(2Y)



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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005