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# Customer information packet

## EM3220T

1.5HP, 855RPM, 3PH, 60HZ, 184T, 3642M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPEN
Frame	184T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CURUSEEV UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.000 A @ 208.0 V 6.000 A @ 230.0 V 3.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

## Part detail

Revision	L
Type	AC
Mech. spec.	36B001
Base	
Status	PRD/A
Elec. spec.	36WGR623
Layout	36LYB001
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	08
Leads	9#16
Proprietary	False
Created date	04-27-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3642M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	16.50 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	855 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>NP2116L</b>									
<b>CAT.NO.</b>	EM3220T								
<b>SPEC.</b>	36B001R623G1								
<b>HP</b>	1.5								
<b>VOLTS</b>	230/460								
<b>AMP</b>	6/3								
<b>RPM</b>	855								
<b>FRAME</b>	184T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	77	<b>PF</b>	60						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6206	<b>ODE</b>	6205						
<b>ENCL</b>	OPEN	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 66592

Typical performance - not guaranteed values

<b>Winding:</b> 36WGR623-R011		<b>Type:</b> 3642M		<b>Enclosure:</b> OPEN	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1.5	<b>Full Load Torque</b>	9.45 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	6/3	<b>Breakdown Torque</b>	28.64 LB-FT		
<b>R.P.M.</b>	855	<b>Pull-up Torque</b>	20.44 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	27.45 LB-FT
<b>NEMA Design Code</b>	B	<b>KVA Code</b>	K	<b>Starting Current</b>	16.03 A
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	2.2 A		
<b>NEMA Nom. Eff.</b>	77	<b>Power Factor</b>	60	<b>Line-line Res. @ 25°C</b>	8.07 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	61°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	76°C	
			<b>Locked-rotor Power Factor</b>	48.6	
			<b>Rotor inertia</b>	0.394 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 1.5 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>	26	40	51	60	67	71	64
<b>Efficiency</b>	66.6	75.6	78.4	78.2	76.9	74.2	77.9
<b>Speed</b>	889	879	868	856	841	823	847
<b>Line amperes</b>	2.24	2.43	2.71	3.06	3.5	4.05	3.31

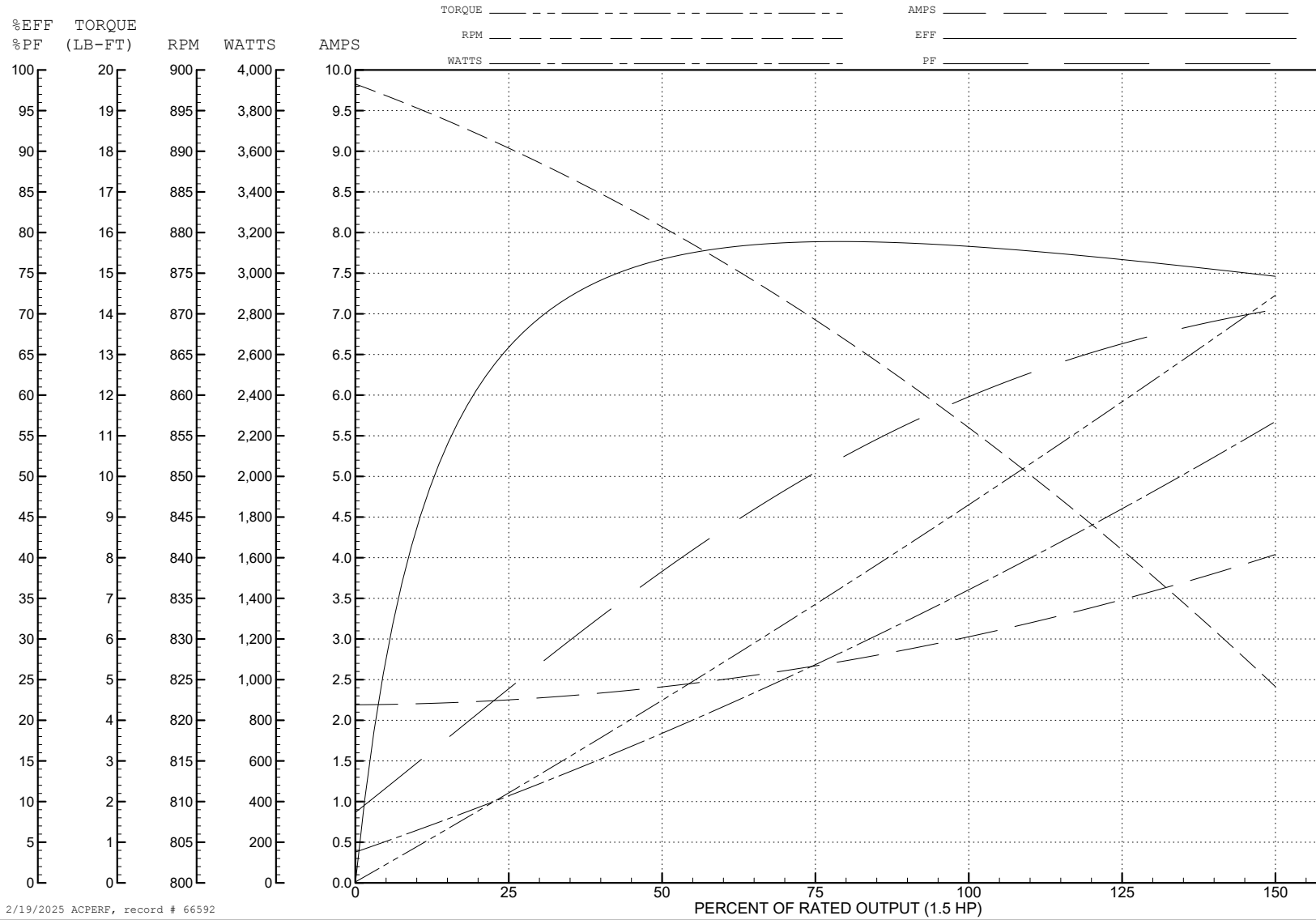
ABB Motors and Mechanical Inc.

WINDING # 36WGR623

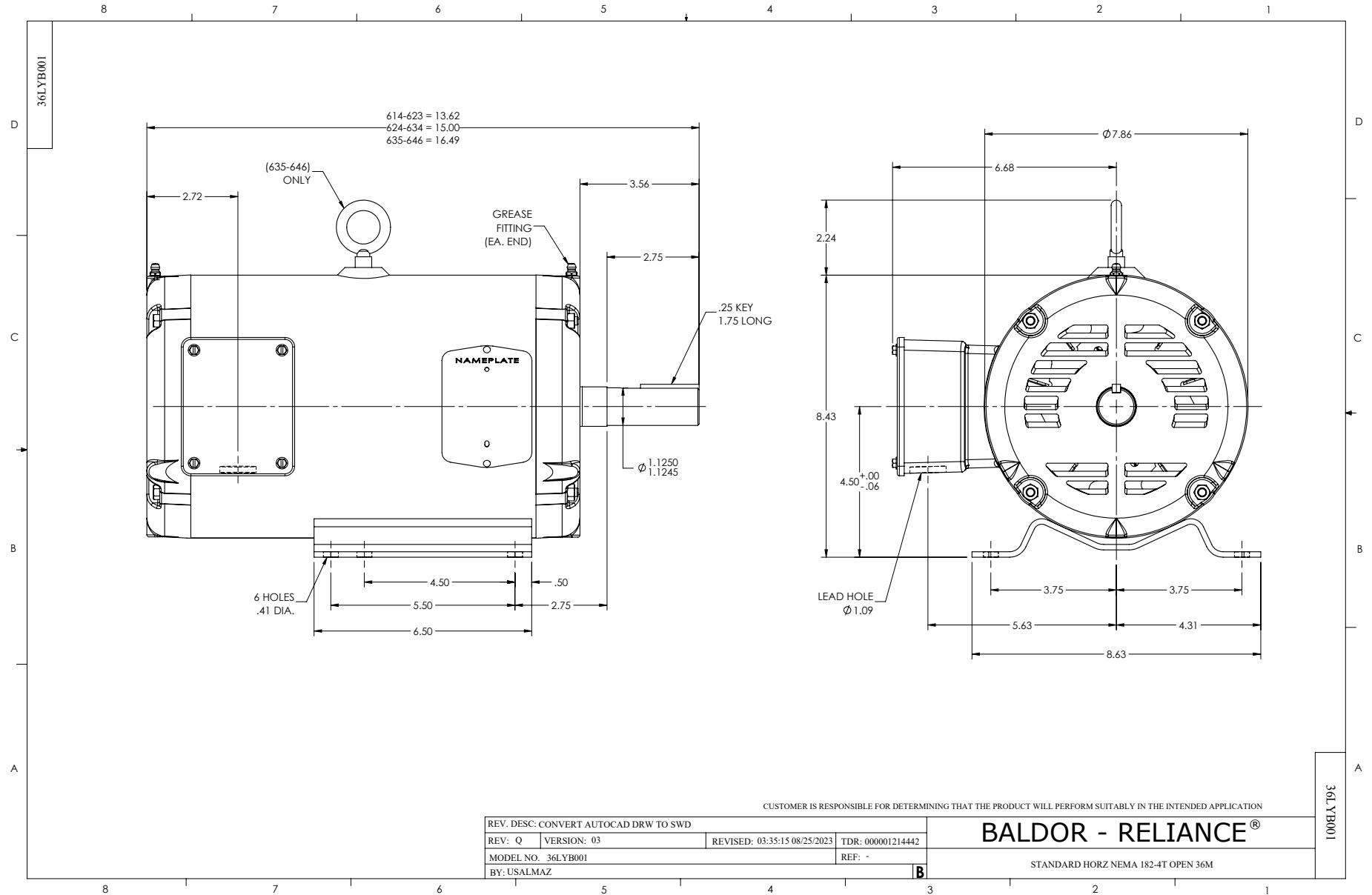
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 855 RPM 460 V 3642M

TORQUES (LB-FT): PO=28.64 PU=20.44 LR=27.45 LRA=16.03



2/19/2025 ACPERF, record # 66592





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