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# Customer information packet

## EFM3158T-G

3HP, 3450RPM, 3PH, 60HZ, 145T, 3530M, OPSB, F2

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPSB
Frame	145T
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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	7.600 A @ 230.0 V 8.000 A @ 208.0 V 3.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	B
Type	AC
Mech. spec.	35E5790
Base	
Status	PRD/A
Elec. spec.	35WGP988
Layout	35LYE5790
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-28-2023

High Voltage Full Load Amps	3.8 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	13.00 IN
Power Factor	87
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	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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**

**NP3553LUA**

<b>CAT.NO.</b>	EFM3158T-G						
<b>SPEC.</b>	35E5790P988G1						
<b>HP</b>	3						
<b>VOLTS</b>	230/460						
<b>AMPS</b>	7.6/3.8						
<b>RPM</b>	3450						
<b>FRAME</b>	145T		<b>HZ</b>	60		<b>PH</b>	3
<b>SF</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CLASS</b>	H
<b>NEMA NOM. EFF</b>	85.5	<b>PF</b>	87				
<b>RATING</b>	40C AMB-CONT						
<b>CC</b>	010A						
<b>ENCL</b>	OPSB	<b>SN</b>					
<b>DE</b>	6205	<b>ODE</b>	6203				
<b>VPWM INVERTER READY</b>							
<b>CT30-60(2:1) VT3-60(20:1)</b>							
<b>USABLE AT</b>	50HZ 3HP 190/380V 9/4.5A						SF1.0

**AC Induction Motor Performance Data**

Record # 36078

Typical performance - not guaranteed values

Winding: 35WGP988-R005		Type: 3530M	Enclosure: OPSB	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	3	Full Load Torque	4.515 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	7.6/3.8	Breakdown Torque	18.1 LB-FT	
R.P.M.	3450	Pull-up Torque	11.3 LB-FT	
Hz	60 Phase	Locked-rotor Torque	15.1 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	32.5 A	
Service Factor (S.F.)	1.15	No-load Current	1.55 A	
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	5.8893 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	33°C	
S.F. Amps		Temp. Rise @ S.F. Load	40°C	
		Locked-rotor Power Factor	58	
		Rotor inertia	0.0822 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	50	72	82	87	90	91	89
Efficiency	76.1	84.3	86	85.8	84.7	83	85.1
Speed	3569.1	3541.6	3510.6	3478.3	3442.7	3400.2	3457
Line amperes	1.77	2.29	2.97	3.73	4.58	5.53	4.24

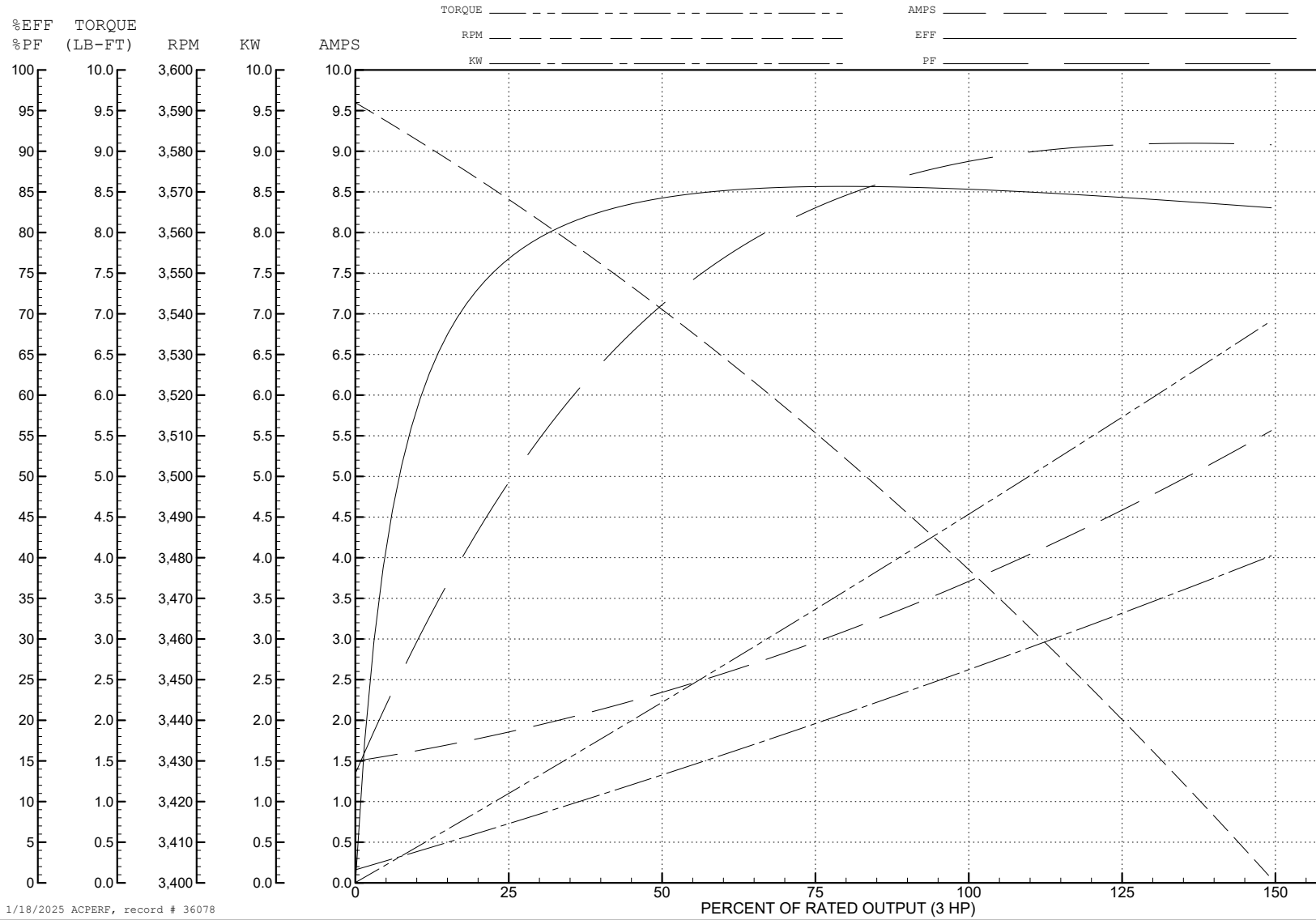
ABB Motors and Mechanical Inc.

WINDING # 35WGP988

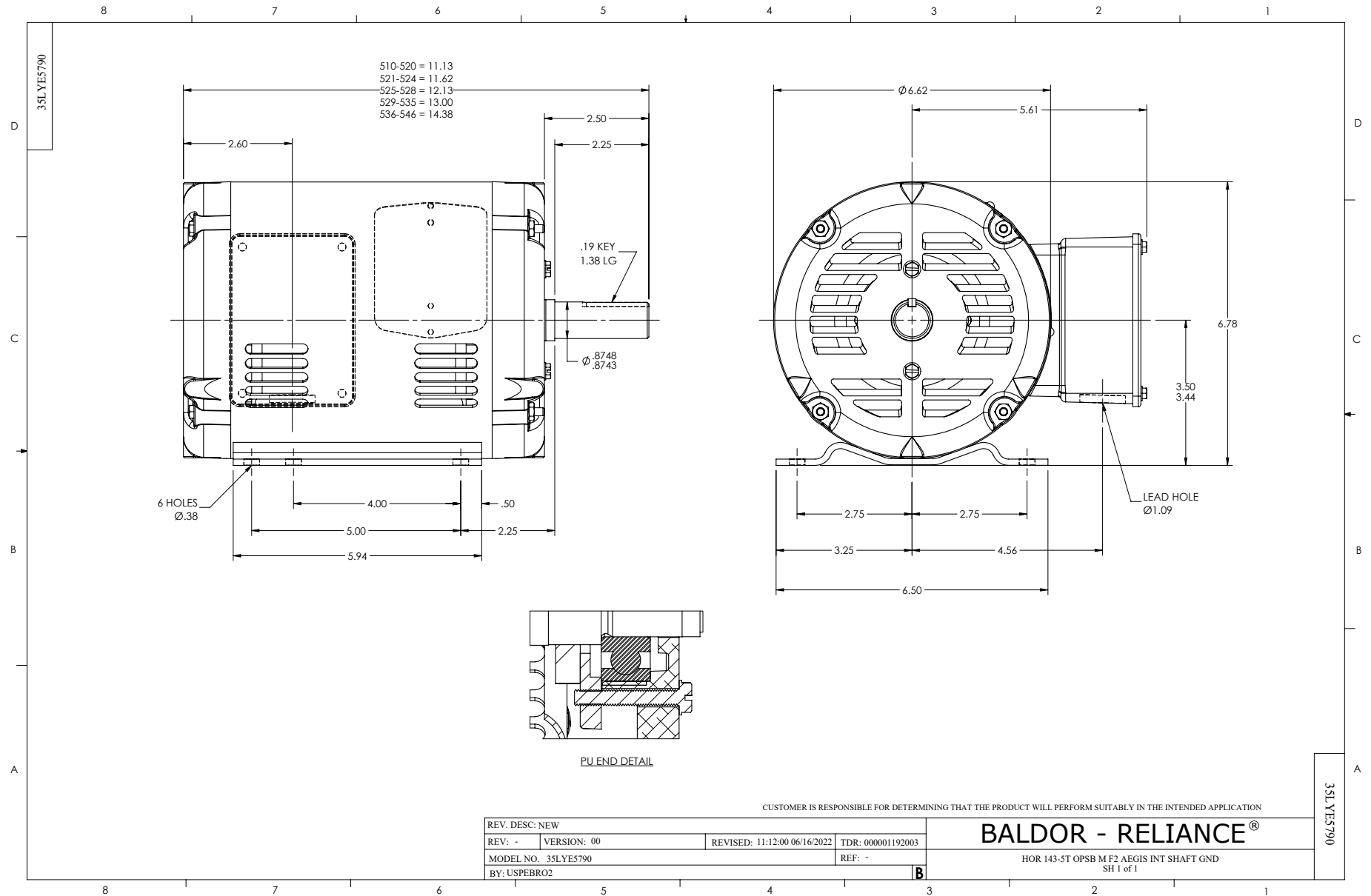
Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3530M

TORQUES (LB-FT): PO=18.1 PU=11.3 LR=15.1 LRA=32.5



1/18/2025 ACPERF, record # 36078



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