

**BALDOR • RELIANCE**

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# Customer information packet

## EFM3610T

3HP, 3450RPM, 3PH, 60HZ, 182T, 3532M, TEFC, F2

Class - None

Division - Not Applicable

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## Specifications

Enclosure	TEFC
Frame	182T
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	7.900 A @ 208.0 V 7.200 A @ 230.0 V 3.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

## Part detail

Revision	L
Type	AC
Mech. spec.	35N395
Base	
Status	PRD/A
Elec. spec.	35WGQ060
Layout	35LYN395
Eff. date	04-30-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-19-2013

<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	3.6 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	9 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3532M
<b>Mounting Arrangement</b>	F2
<b>Number of Poles</b>	2
<b>Overall Length</b>	15.16 IN
<b>Power Factor</b>	92
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None

<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP3441L</b>									
<b>CAT.NO.</b>	EFM3610T								
<b>SPEC.</b>	35N395Q060G1								
<b>HP</b>	3								
<b>VOLTS</b>	230/460								
<b>AMP</b>	7.2/3.6								
<b>RPM</b>	3450								
<b>FRAME</b>	182T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	L	<b>DES</b>	B	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	86.5	<b>PF</b>	92						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6206	<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>							
<b>VPWM INVERTER READY</b>									
<b>CT6-60H(10:1)VT3-60H(20:1)</b>									

**AC Induction Motor Performance Data**

Record # 50261

Typical performance - not guaranteed values

<b>Winding: 35WGQ060-R002</b>		<b>Type: 3532M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	3	<b>Full Load Torque</b>	4.5 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	7.2/3.6	<b>Breakdown Torque</b>	18 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	11 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	16 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	L	<b>Starting Current</b>	33 A	
<b>Service Factor (S.F.)</b>		1.15	<b>No-load Current</b>	1.2 A	
<b>NEMA Nom. Eff.</b>	86.5 <b>Power Factor</b>	92	<b>Line-line Res. @ 25°C</b>	4.72 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	

**Load Characteristics 460 V, 60 Hz, 3 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>	62	81	88	92	93	94	93
<b>Efficiency</b>	83.7	87.9	88.2	87.2	85.6	83.5	86.2
<b>Speed</b>	3562	3531	3498	3462	3421	3375	3437
<b>Line amperes</b>	1.5	2.1	2.8	3.6	4.5	5.4	4.1

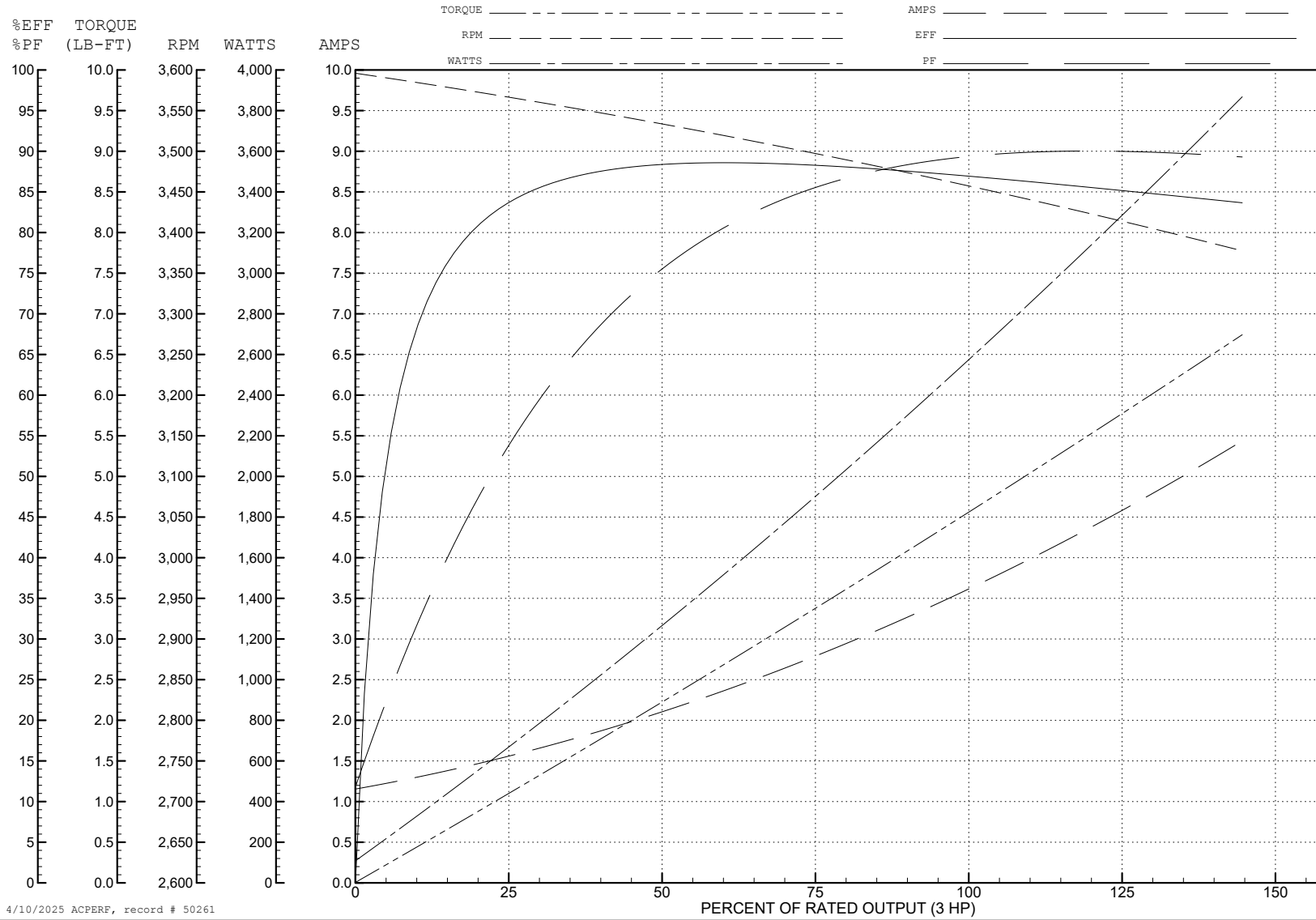
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WINDING # 35WGQ060

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=18 PU=11 LR=16 LRA=33



4/10/2025 ACPERF, record # 50261

**AC Induction Motor Performance Data**

Record # 59171

Typical performance - not guaranteed values

Winding: 35WGQ060-R002		Type: 3532M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Low Voltage Connection</b>	
Rated Output (HP)	3	Full Load Torque	4.5 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	7.2/3.6	Breakdown Torque	18 LB-FT	
R.P.M.	3450	Pull-up Torque	11 LB-FT	
Hz	60 Phase	Locked-rotor Torque	16 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	66 A	
Service Factor (S.F.)	1.15	No-load Current	2.4 A	
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	1.17 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	61°C	
S.F. Amps		Temp. Rise @ S.F. Load	73°C	
		Locked-rotor Power Factor	47.1	
		Rotor inertia	0.0885 LB-FT <sup>2</sup>	

**Load Characteristics 230 V, 60 Hz, 3 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	77	85	88	89	90	89
Efficiency	84.1	87.9	88.4	87.2	85.7	83.5	86.3
Speed	3562	3531	3498	3462	3421	3375	3437
Line amperes	3	4.2	5.6	7.2	9	10.8	8.28

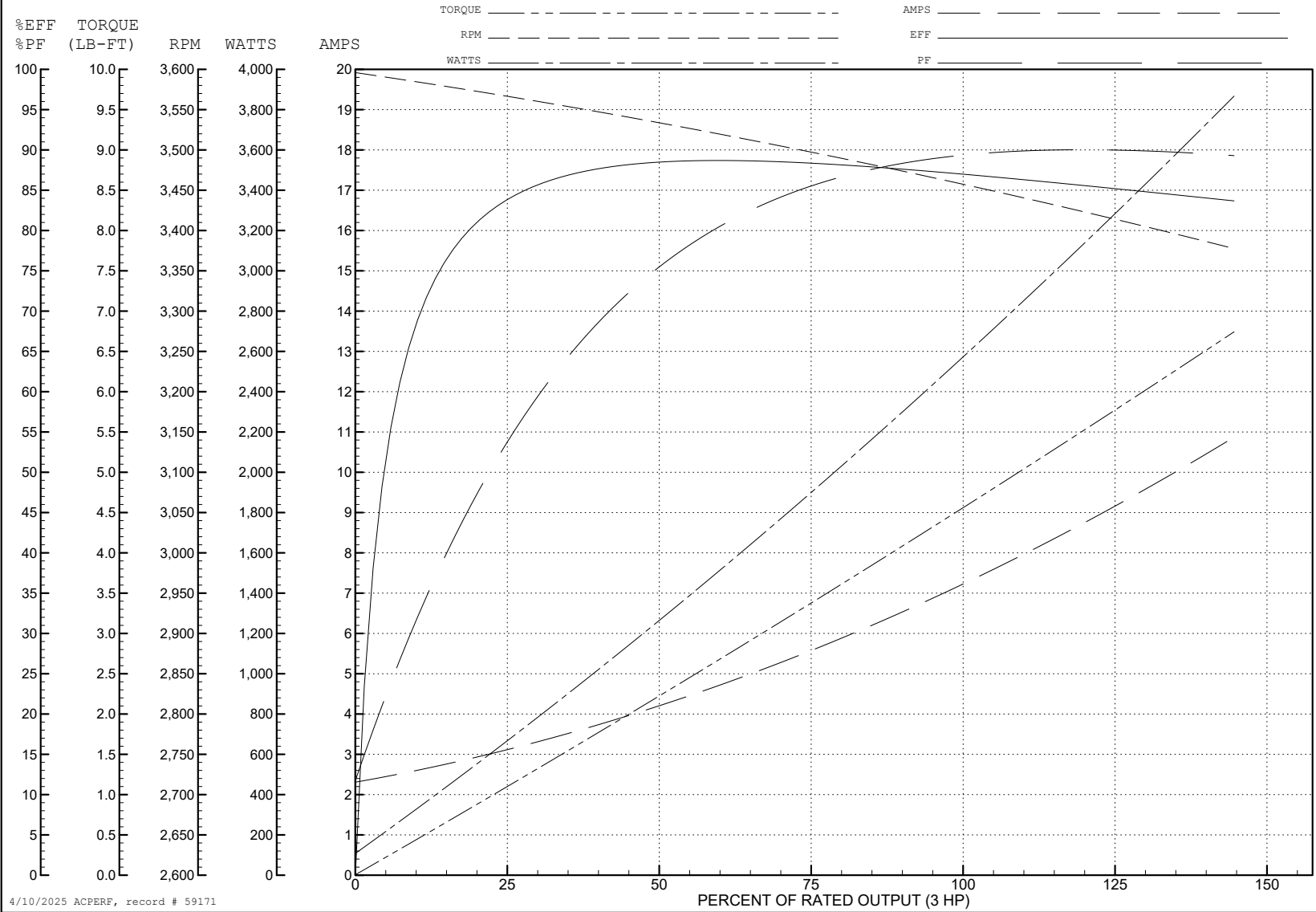
ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

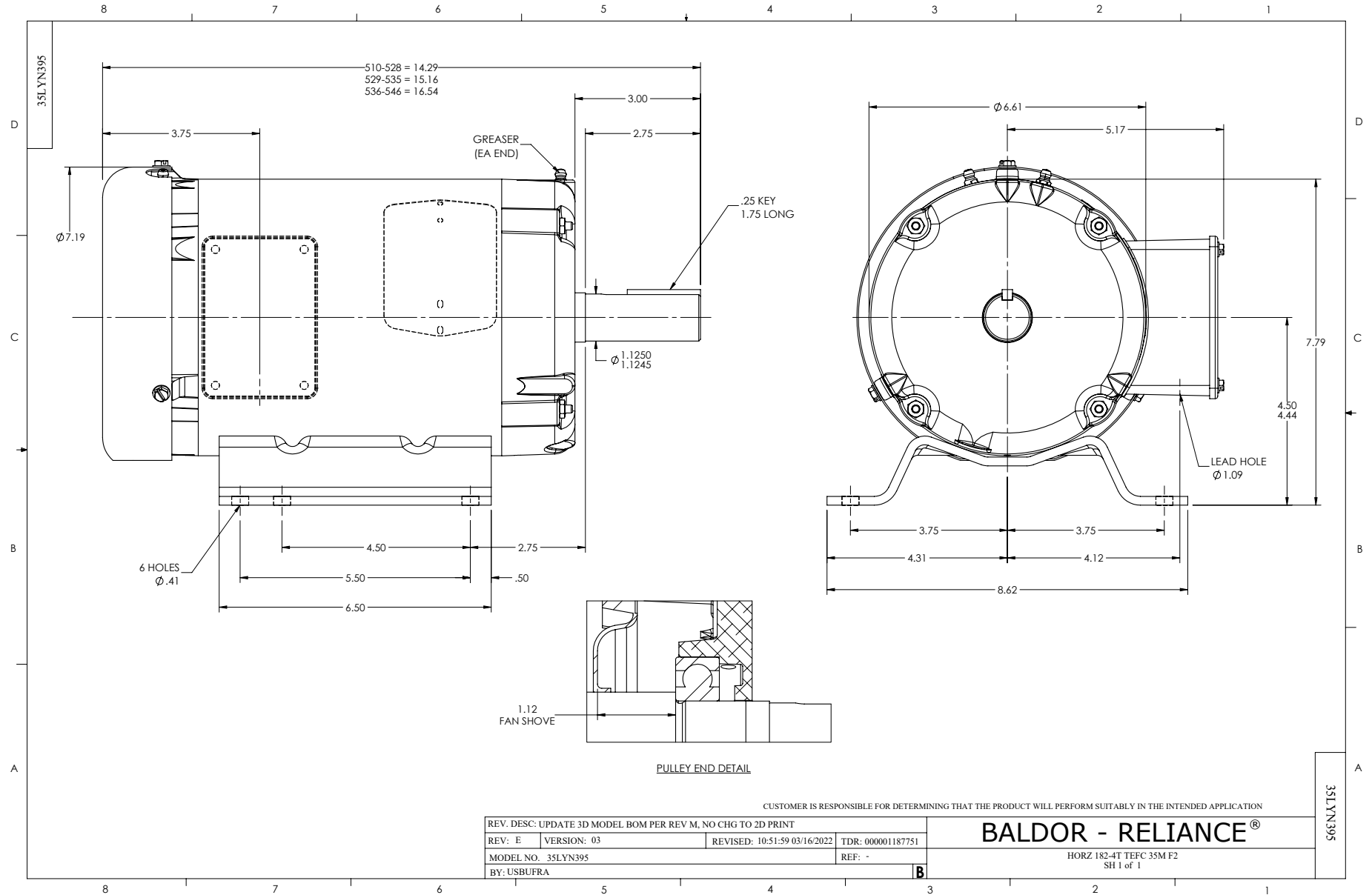
Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 230 V 3532M

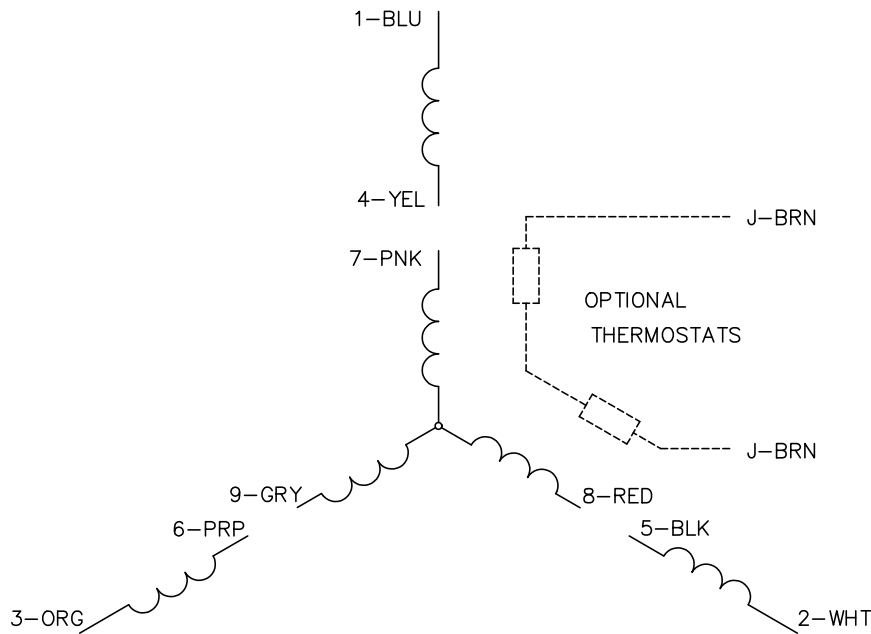
TORQUES (LB-FT): PO=18 PU=11 LR=16 LRA=66



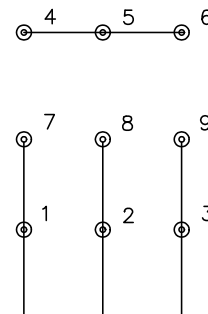
4/10/2025 ACPERF, record # 59171



CD0005

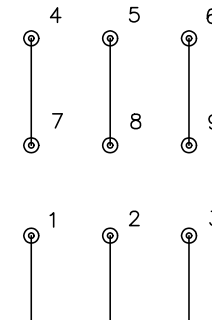


LOW VOLTAGE  
(2Y)



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