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# Customer information packet

## EMM3558

1.5KW, 1765RPM, 3PH, 60HZ, D90S, L, 3528M, TEFC

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	D90S,L
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 KW @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA UR WEEE
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	5.400 A @ 230.0 V 5.600 A @ 208.0 V 2.700 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
Frame Prefix	D
Front Shaft Indicator	None

## Part detail

Revision	D
Type	AC
Mech. spec.	35Q920
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYQ920
Eff. date	06-28-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3528M
Mounting Arrangement	B3
Number of Poles	4
Overall Length	13.00 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.945 IN
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>NP1379L</b>			
<b>CAT.NO.</b>	EMM3558		
<b>SPEC.</b>	35Q920G073G1		
<b>IEC FRAME</b>	D90S,L	<b>K.W.</b>	1.5 TE
<b>VOLTS</b>	230/460		
<b>AMP</b>	5.6/2.8		
<b>RPM</b>	1760	<b>I.P.</b>	44
<b>HZ</b>	60	<b>PH</b>	3 <b>CL</b> F
<b>SER.F.</b>	1.15	<b>DES</b>	B <b>CODE</b> K
<b>NEMA-NOM-EFF</b>	86.5	<b>PF</b>	77
<b>RATING</b>	40C AMB-CONT		
<b>CC</b>	010A		
<b>DE</b>	6205	<b>ODE</b>	6203
<b>SER. #</b>	SFA 6/3		

**AC Induction Motor Performance Data**

Record # 87099

Preliminary Data Sheet

<b>Winding: 35WGG073-R011</b>		<b>Type: 3528M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (KW)</b>	1.5	<b>Full Load Torque</b>	6.02 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	5.6/2.8	<b>Breakdown Torque</b>	20.5 LB-FT		
<b>R.P.M.</b>	1760	<b>Pull-up Torque</b>	13.8 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	15 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	22.5 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.62 A		
<b>NEMA Nom. Eff.</b>	86.5	<b>Line-line Res. @ 25°C</b>	9.54 Ω		
<b>Rating - Duty</b>	40C	<b>Temp. Rise @ Rated Load</b>	64°C		
<b>S.F. Amps</b>	6.3/3.15	<b>Temp. Rise @ S.F. Load</b>	77°C		
		<b>Locked-rotor Power Factor</b>	57.9		
		<b>Rotor inertia</b>	0.202 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 1.5 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	69	77	81	84	83
<b>Efficiency</b>	78.2	85.3	86.8	86.5	85.4	83.6	86.2
<b>Speed</b>	1791	1782	1771	1760	1748	1734	1757
<b>Line amperes</b>	1.71	1.97	2.35	2.83	3.37	3.99	3.04

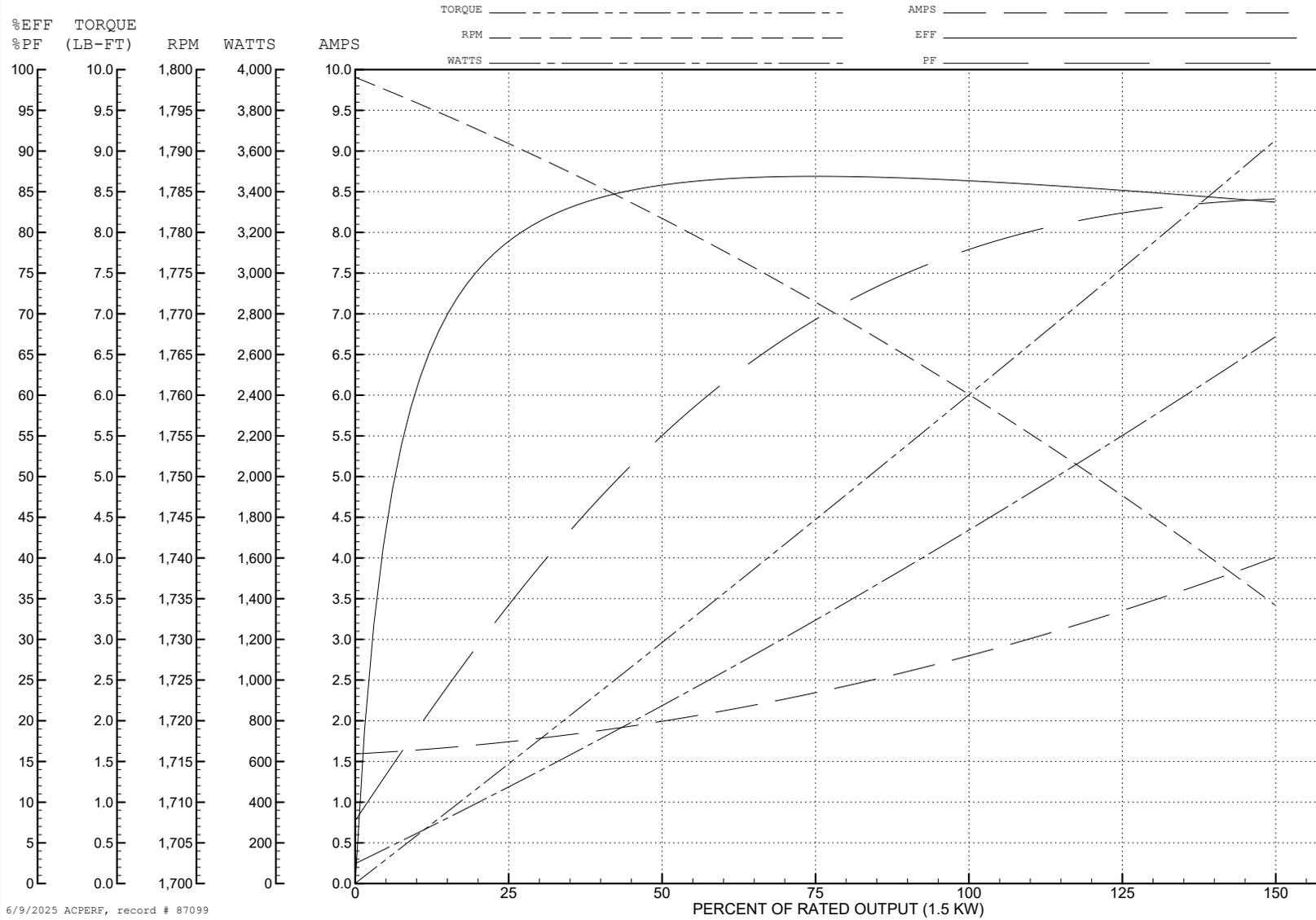
ABB Motors and Mechanical Inc.

WINDING # 35WGG073

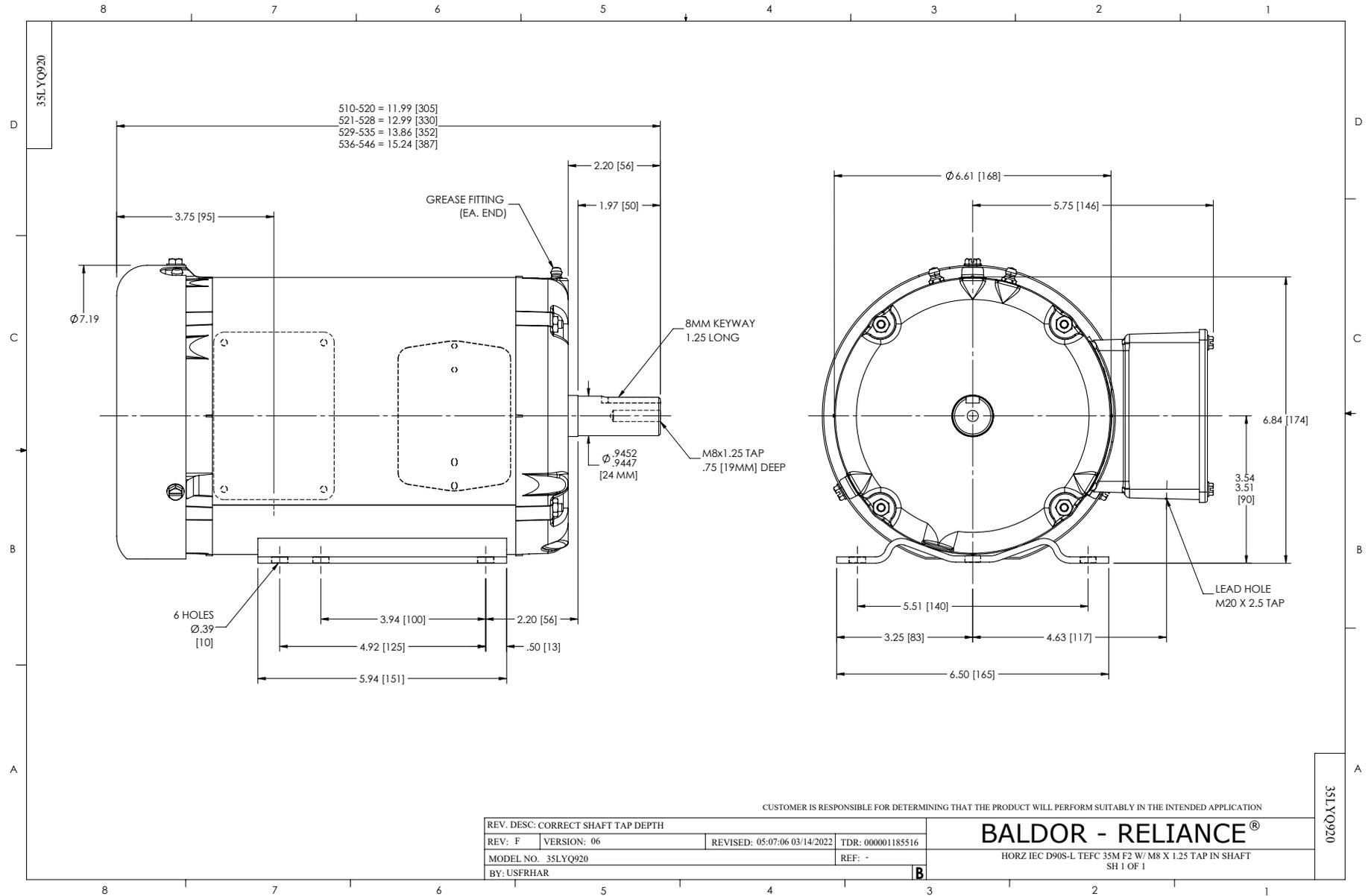
Typical performance - not guaranteed values.

1.5 KW 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5



6/9/2025 ACPERF, record # 87099



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