

BALDOR • RELIANCE

Customer information packet

EMM3558

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

Class - None

Division - Not Applicable

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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

NP1379L			
CAT.NO.	EMM3558		
SPEC.	35Q920G073G1		
IEC FRAME	D90S,L	K.W.	1.5 TE
VOLTS	230/460		
AMP	5.6/2.8		
RPM	1760	I.P.	44
HZ	60	PH	3 CL F
SER.F.	1.15	DES	B CODE K
NEMA-NOM-EFF	86.5	PF	77
RATING	40C AMB-CONT		
CC	010A		
DE	6205	ODE	6203
SER. #	SFA 6/3		

AC Induction Motor Performance Data

Record # 87099

Preliminary Data Sheet

Winding: 35WGG073-R011		Type: 3528M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (KW)	1.5	Full Load Torque	6.02 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	5.6/2.8	Breakdown Torque	20.5 LB-FT	
R.P.M.	1760	Pull-up Torque	13.8 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	15 LB-FT
NEMA Design Code	B KVA Code	K	Starting Current	22.5 A
Service Factor (S.F.)	1.15	No-load Current	1.62 A	
NEMA Nom. Eff.	86.5 Power Factor	77	Line-line Res. @ 25°C	9.54 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	64°C	
S.F. Amps	6.3/3.15	Temp. Rise @ S.F. Load	77°C	
		Locked-rotor Power Factor	57.9	
		Rotor inertia	0.202 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 1.5 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	69	77	81	84	83
Efficiency	78.2	85.3	86.8	86.5	85.4	83.6	86.2
Speed	1791	1782	1771	1760	1748	1734	1757
Line amperes	1.71	1.97	2.35	2.83	3.37	3.99	3.04

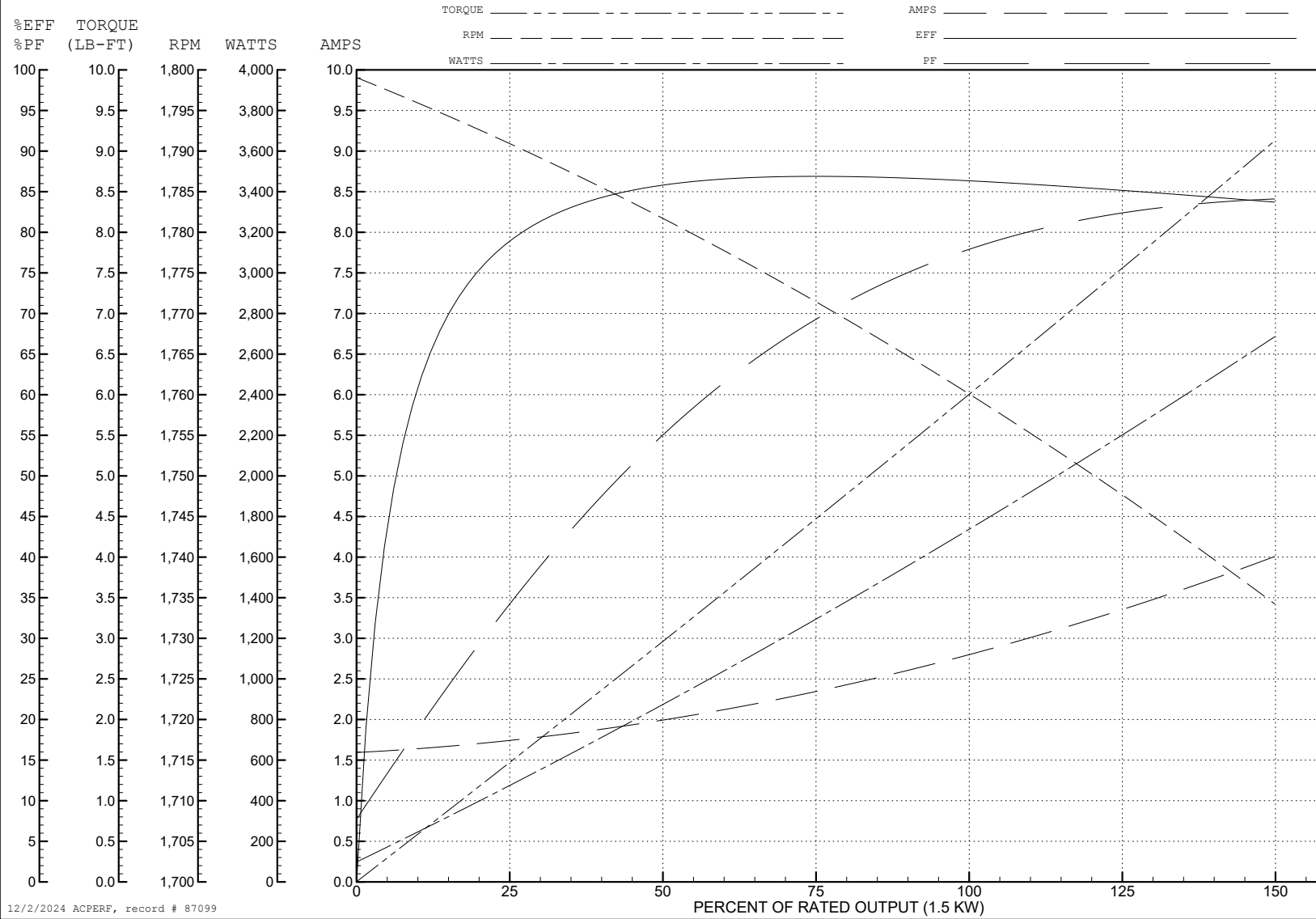
ABB Motors and Mechanical Inc.

WINDING # 35WGG073

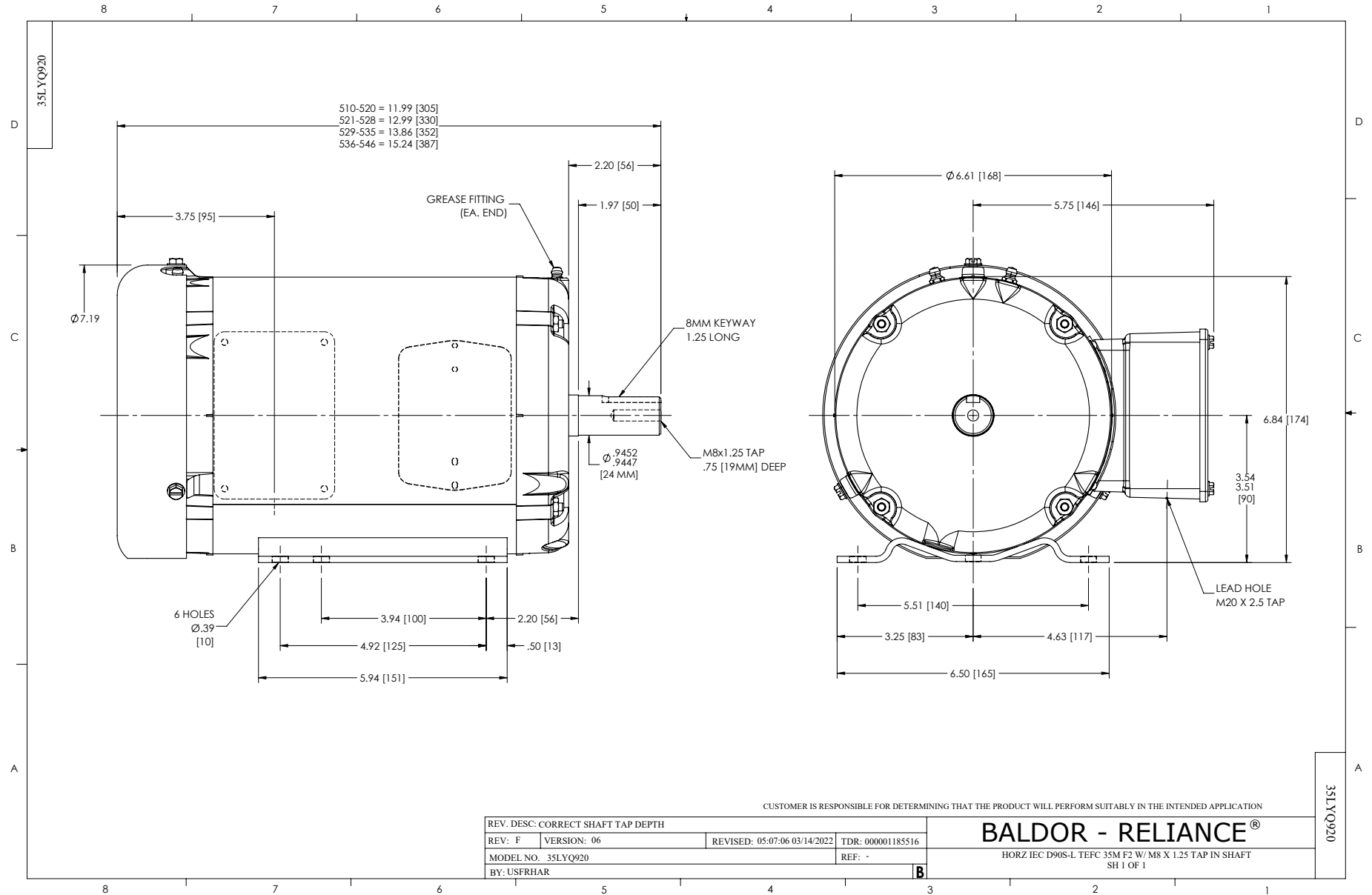
1.5 KW 3 PH 60 HZ 1760 RPM 460 V 3528M

Typical performance - not guaranteed values.

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



12/2/2024 ACPERF, record # 87099



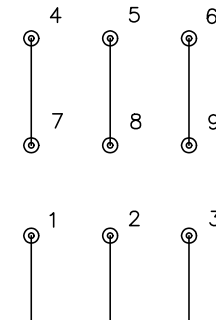
CD0005



LOW VOLTAGE
(2Y)



HIGH VOLTAGE
(1Y)



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