ABB BALDOR RELIANCE

Customer information packet

SUM72504-4

25HP, 1760RPM, 3PH, 60HZ, 250TY, XPNV, V1
Class - CLI GP C,D
Division - Not Applicable

9/3/2026 2:03:59 AM

Specifications

Enclosure	XPNV
Frame	250TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	3
Agency Approvals	CCSA US
	CULUS
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	IP68
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	4
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.750 IN

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85911
Layout	619738-005
Eff. date	12-10-2024
CD Diagram	
Poles	///
Leads	
Proprietary	False
Created date	05-18-2021

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007MS

CAT.NO.	SUM72504-4			**SPEC NO.**	S25-CWS0-0003							
SER.NO.					**FRAME SIZE**	250TY						
	HP	**RPM**	**VOLTS**	**AMPS**	**HZ**	**S.F.**						
	25	1760	230/460	62/31	6-60	1.00						
	25	1760	230/460	62/31	60	1.15						
CONSTANT HP RPM		**@**		**HZ**	**CODE**	G						
TYPE	P	**INSUL.CLASS**	F	**TORQUE**	10:1_VT		**DESIGN**	B				
D.E. BRG.	60BC03JPP30A		**ENCL**	TENV	**DUTY**	15 MIN	**PH**	3				
O.D.E. BRG.	40BC02JPG30A		**MOTOR WEIGHT**		**AMB**	40						
	FINAL CONN VOLTAGE = 460 *15											
	MIN IN AIR ;SUB. IN SEWAGE / WATER ONLY											

000613007RC			
CLASS I GROUP	C D X	**NO.**	
CLASS II GROUP	X X X		
OPERATING TEMP CODE	T3C		

000692000MB
SUITABLE FOR OPERATION ON PWM
INVERTER EQUIPPED WITH IGBT
DEVICES AND CAPABLE OF
CARRIER
FREQUENCY OF 2 KHZ MINIMUM

000613007MS

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	WATER ONLY											

AC Induction motor performance data

Record #85911 - Typical performance - not guaranteed values

Winding	09WGA0208
Type	0944M
Enclosure	TENV

Nameplate data			
Rated Output			25
Volts			230/460
Full Load Amps			62/31
R.P.M.			1760
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	91.7	Power Factor	86
Duty			15 MIN
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection	
Full Load Torque	73.82 LB-FT
Start Configuration	direct on line
Breakdown Torque	236 LB-FT
Pull-up Torque	115 LB-FT
Locked-rotor Torque	127 LB-FT
Starting Current	192 A
No-load Current	16.13
Line-line Res. @ 25°C	0.407 Ω
Temp. Rise @ Rated Load	41°C
Temp. Rise @ S.F. Load	51°C
Locked-rotor Power Factor	34.4
Rotor inertia	1.92 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

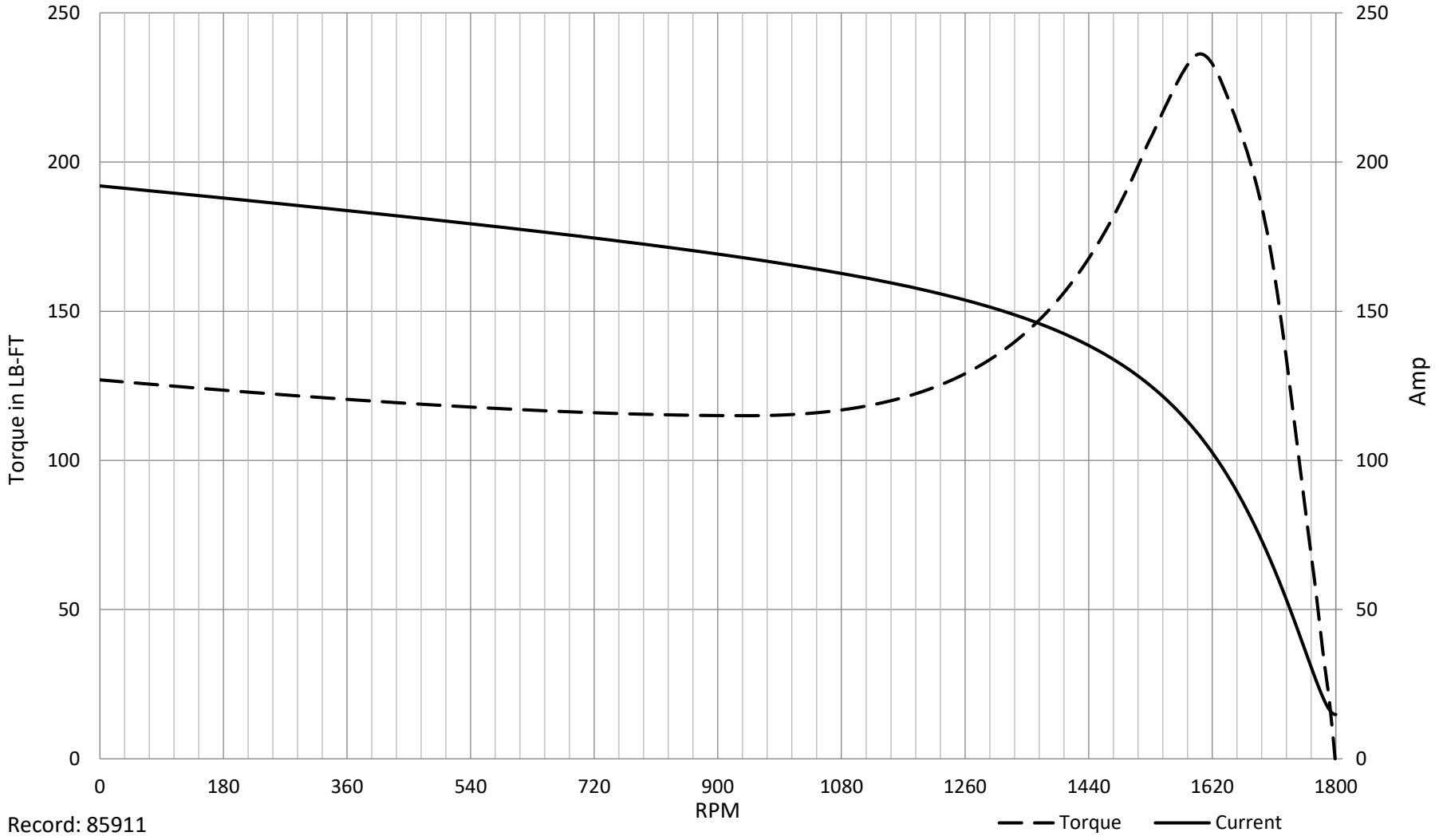
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	38	60	73	79	82	83	87
Efficiency	0	90	92.8	93.1	92.6	91.6	90.3	91.6
Speed	1799	1791	1781	1771	1761	1750	1737	1751
Line amperes	16.13	17.49	20.77	26.17	31.75	38.96	46.88	35.2

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

09WGA0208

25HP 460V 60HZ



Record: 85911

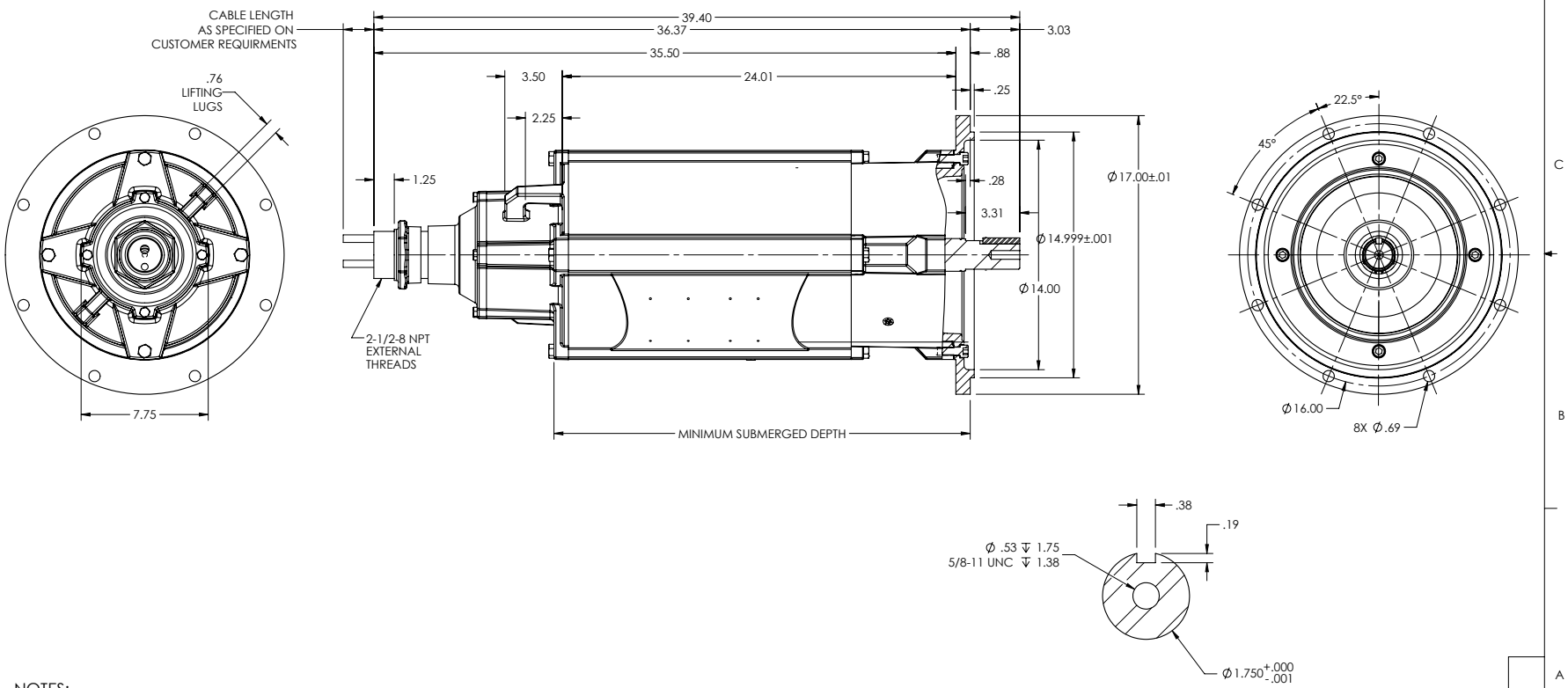
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED

SUBMERSIBLE

250TY FRAME

619738-005



NOTES:
1. FACE RUNOUT AND ECCENTRICITY .008 MAX T.I.R.
2. PROTECTIVE CONDUIT FURNISHED BY CUSTOMER
3. WEIGHT (LBS): 750 +/- 15%
4. 3"-8 PIPE THREAD SUPPLIED WITH CABLE SIZE NO. 4 AND LARGER

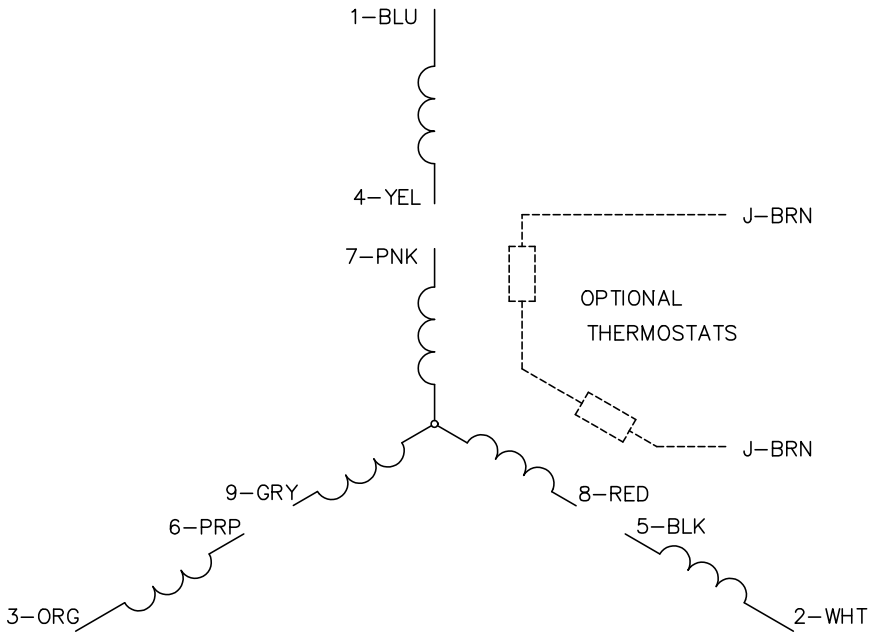
REV. DESC: CORRECTED SHAFT TOLERANCE			
REV: B	VERSION: 02	REVISED: 08:13:56 09/15/2021	TDR: 000001177451
MODEL NO. 619738-005			REF: -
BY: RGGJAO			B

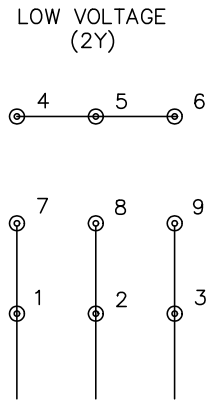
BALDOR

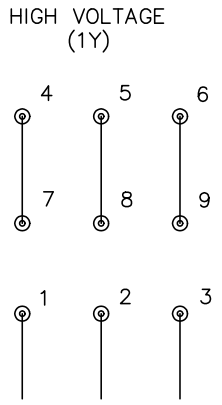
DIM SHT 250TY SUBMERSIBLE WITH STANDARD MOUNTING

619738-005

CD0005







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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS