

ABB BALDOR RELIANCE III

Customer information packet

SUM72504-4

25HP, 1760RPM, 3PH, 60HZ, 250TY, XPNV, V1

Class - CLI GP C,D

Division - Not Applicable

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					
CONSTANT HP RPM	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		
			@		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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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						
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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-FT ²

Load Characteristics 460 V, 60 Hz, 25 HP

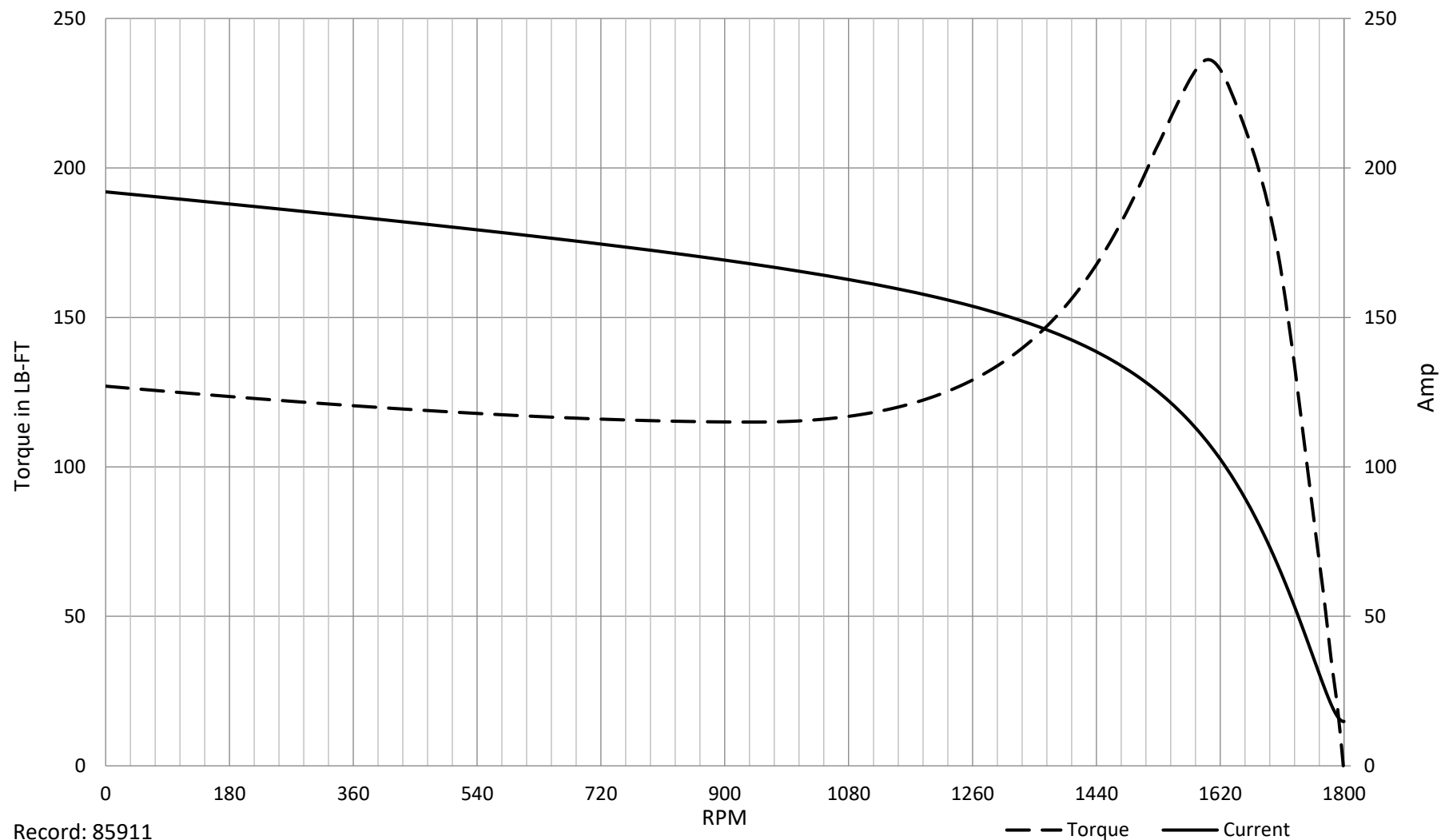
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	38	60	73	79	82	83	87
Efficiency	0	90	92.8	93.1	92.6	91.6	90.3	91.6
Speed	1799	1791	1781	1771	1761	1750	1737	1751
Line amperes	16.13	17.49	20.77	26.17	31.75	38.96	46.88	35.2

SPEED TORQUE / SPEED CURRENT CURVES

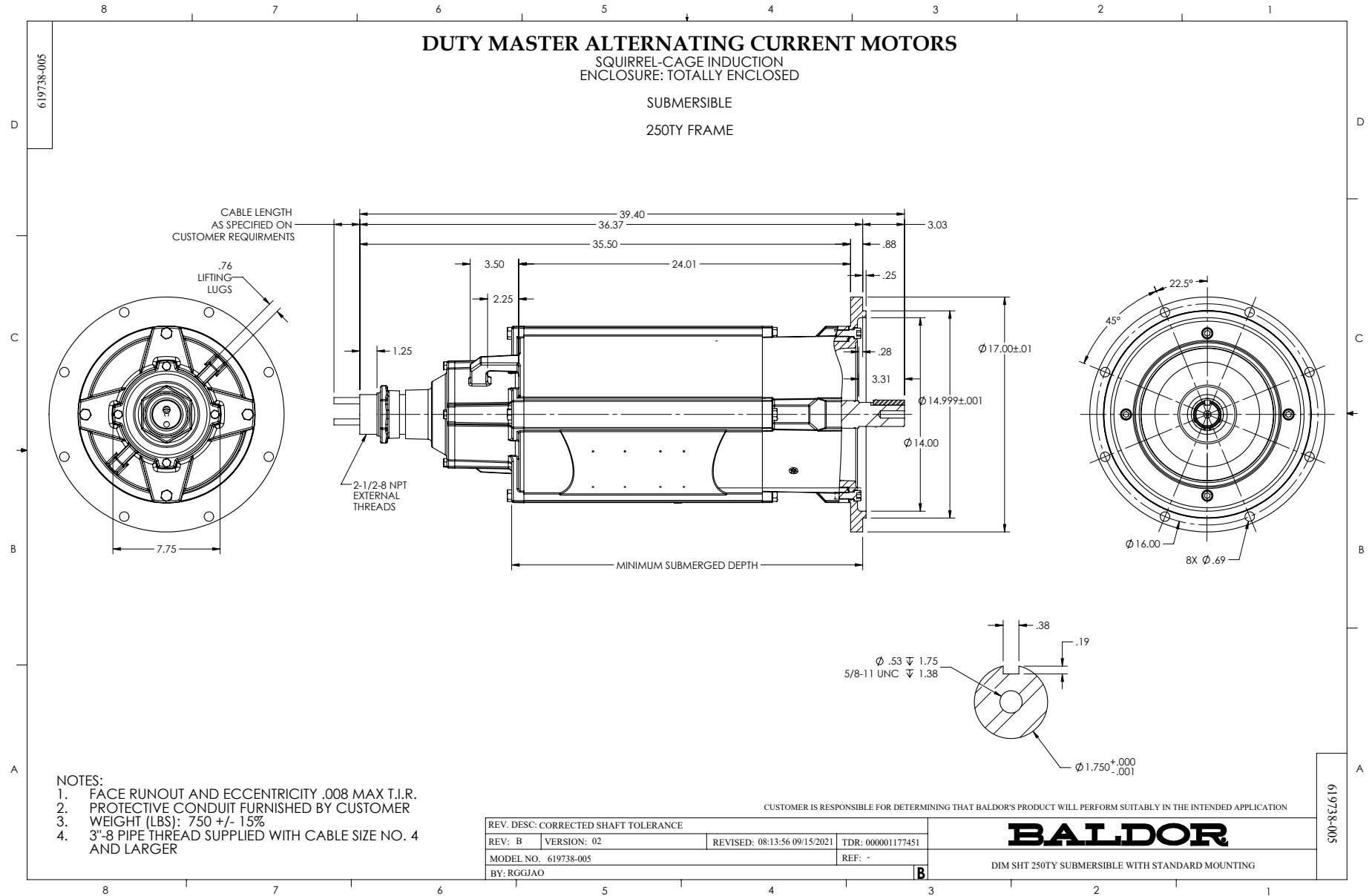
BALDOR • RELIANCE

09WGA0208

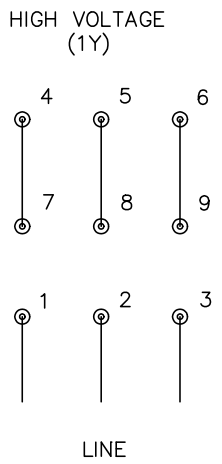
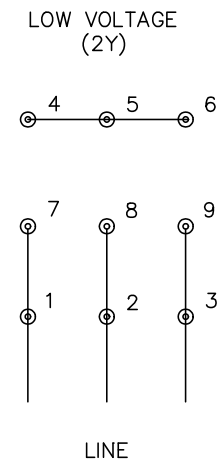
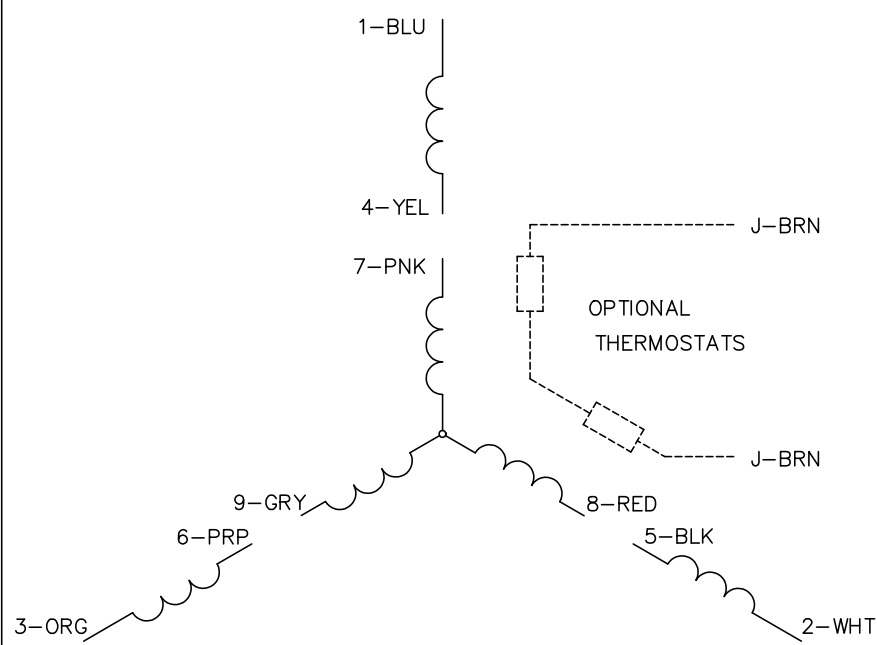
25HP 460V 60HZ



Record: 85911



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005