

ABB BALDOR RELIANCE III

Customer information packet

SUM72506SM-4

25HP, 1160RPM, 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	C UR US CCSA US
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	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	6
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.437 IN

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85928
Layout	619738-006
Eff. date	12-10-2024
CD Diagram	416820-036
Poles	///
Leads	
Proprietary	False
Created date	05-21-2021

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.	SUM72506SM-4			SPEC NO.		S25-CWS0-0010					
SER.NO.				FRAME SIZE		250TY					
CONSTANT HP RPM	HP	RPM	VOLTS		AMPS		HZ		S.F.		
	25	1160	230/460		82/41		6-60		1.00		
	25	1160	230/460		82/41		60		1.15		
	@		HZ		CODE	F					
	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						
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	25	1160	230/460		82/41		6-60		1.00			
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FINAL CONN VOLTAGE = 460 *15												
MIN IN AIR ;SUB. IN SEWAGE /												
WATER ONLY												

Record #85928 - Typical performance - not guaranteed values

Winding	09WGA0210
Type	0950M
Enclosure	PART

Nameplate data

Rated Output	25		
Volts	230/460		
Full Load Amps	82/41		
R.P.M.	1160		
Hz	60	Phase	3
KVA Code	F		
S.F.	1.15		
NEMA Nom. Eff.	87.5	Power Factor	65
Duty	15 MIN		
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	113 LB-FT
Start Configuration	direct on line
Breakdown Torque	234 LB-FT
Pull-up Torque	113 LB-FT
Locked-rotor Torque	150 LB-FT
Starting Current	169 A
No-load Current	21.27
Line-line Res. @ 25°C	0.533 Ω
Temp. Rise @ Rated Load	58°C
Temp. Rise @ S.F. Load	71°C
Locked-rotor Power Factor	27.6
Rotor inertia	3.86 lb-ft ²

Load Characteristics 460 V, 60 Hz, 25 HP

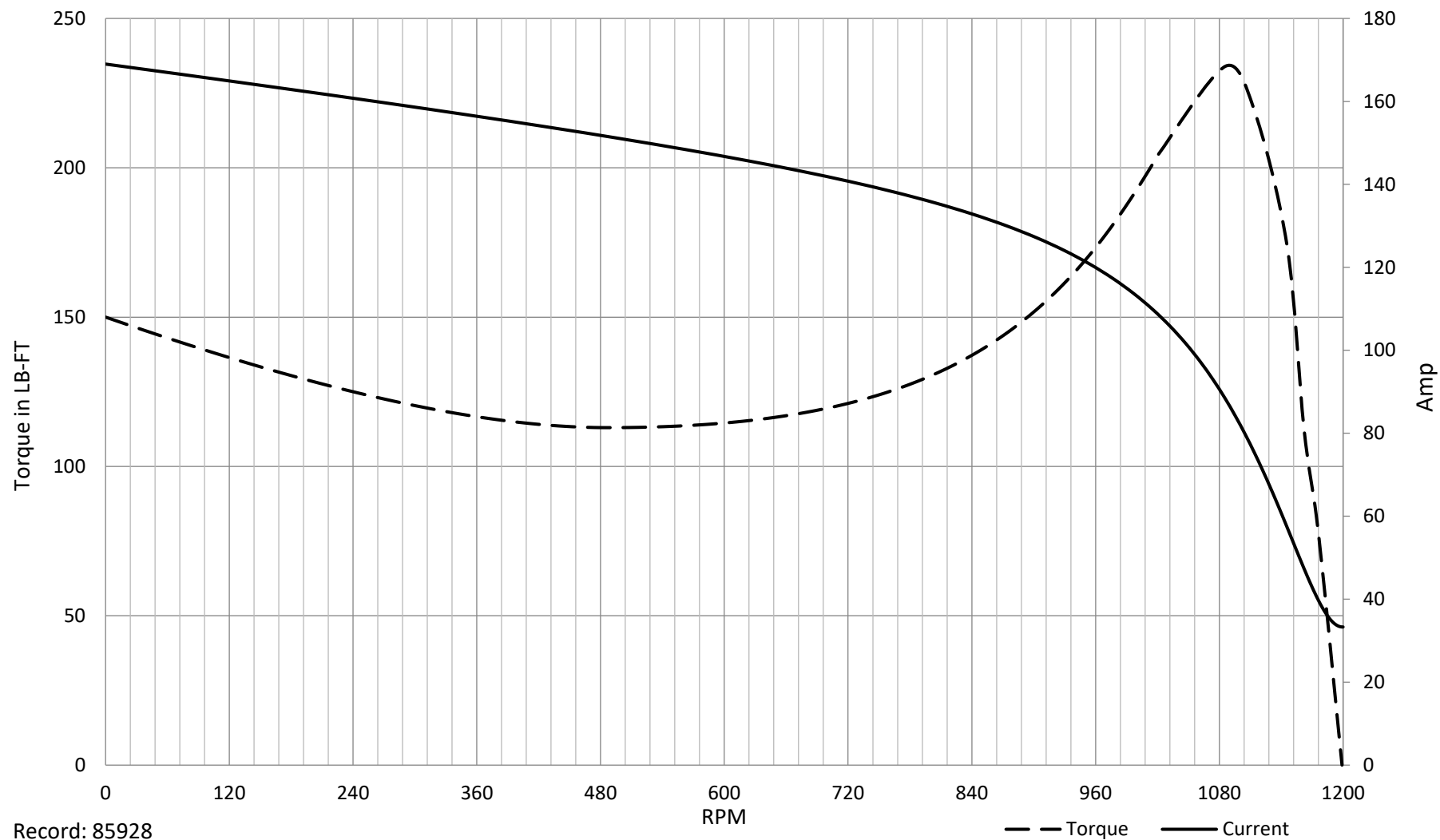
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	31	49	60	65	66	63	66
Efficiency	0	83.6	88.1	88.2	87.5	84.1	78.6	85.5
Speed	1199	1191	1183	1174	1162	1146	1110	1152
Line amperes	21.27	22.66	26.83	33.06	41.22	51.94	71.23	47.7

SPEED TORQUE / SPEED CURRENT CURVES

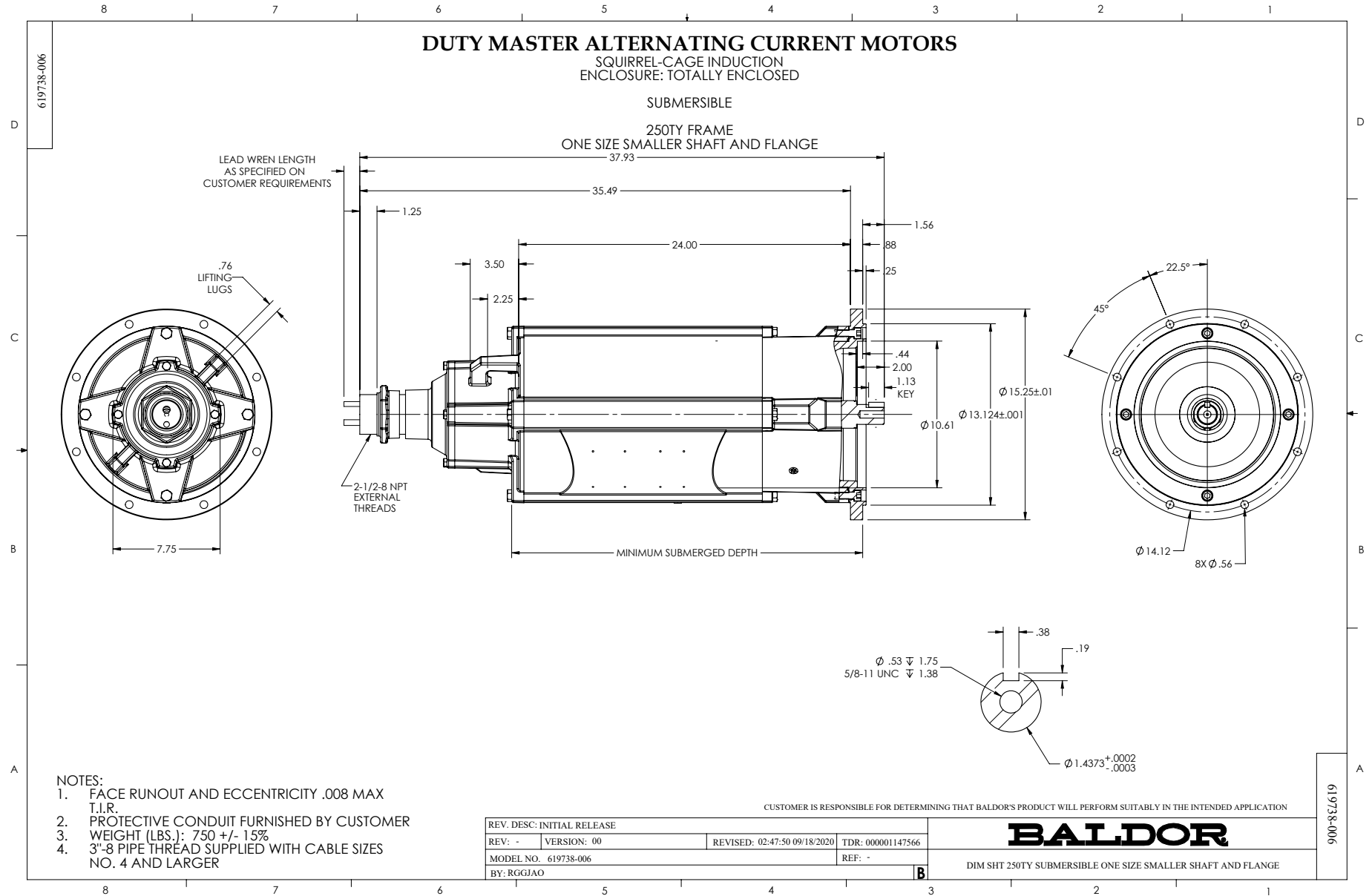


09WGA0210

25HP 460V 60HZ

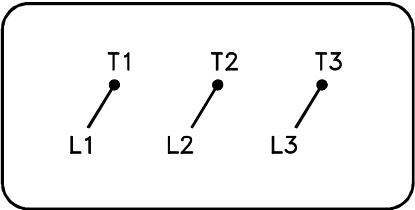


Record: 85928



416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

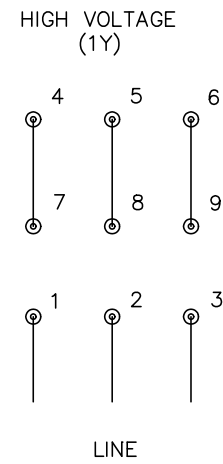
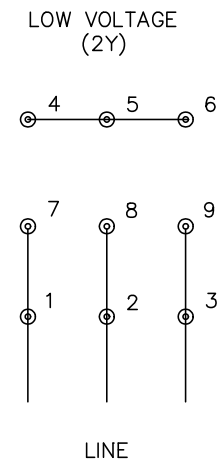
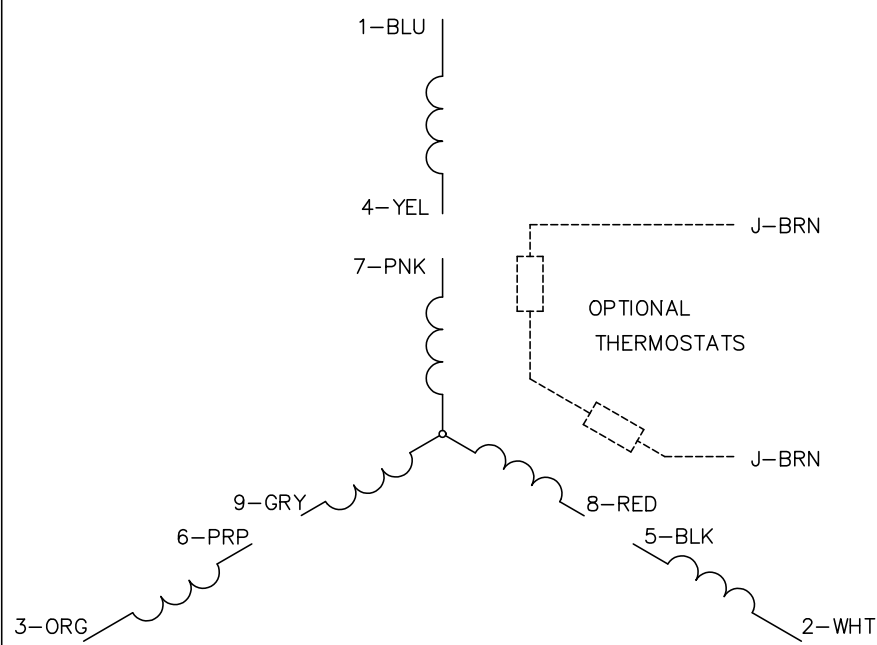
416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1

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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005