

ABB BALDOR RELIANCE III

Customer information packet

SUM73004-4

30HP, 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
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
Shaft Rotation	Reversible

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85909
Layout	619738-005
Eff. date	12-10-2024
CD Diagram	416820-036
Poles	///
Leads	
Proprietary	False
Created date	05-21-2021

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

Nameplate

000613007MS											
CAT.NO.	SUM73004-4			SPEC NO.	S25-CWS0-0009						
SER.NO.					FRAME SIZE	250TY					
CONSTANT HP RPM	HP	RPM	VOLTS		AMPS		HZ		S.F.		
	30	1760	230/460		73/36.5		6-60		1.00		
	30	1760	230/460		73/36.5		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			
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	30	1760	230/460	73/36.5	60	1.15
CONSTANT HP RPM		@	HZ	CODE	G	
TYPE	P	INSUL.CLASS	F	TORQUE	10:1_VT	DESIGN B
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O.D.E. BRG.	40BC02JPG30A	MOTOR WEIGHT		AMB	40	
	FINAL CONN VOLTAGE = 460 *15					
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AC induction motor performance data

Record #85909 - Typical performance - not guaranteed values

Winding	09WGA0209
Type	0954M
Enclosure	PART

Nameplate data

Rated Output			30
Volts			230/460
Full Load Amps			68/34
R.P.M.			1760
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	92.4	Power Factor	91
Duty			15 MIN
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	89.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	243 LB-FT
Pull-up Torque	103 LB-FT
Locked-rotor Torque	128 LB-FT
Starting Current	193 A
No-load Current	8.71
Line-line Res. @ 25°C	0.351 Ω
Temp. Rise @ Rated Load	101°C
Temp. Rise @ S.F. Load	119°C
Locked-rotor Power Factor	33.5
Rotor inertia	2.36 lb-ft ²

Load Characteristics 460 V, 60 Hz, 30 HP

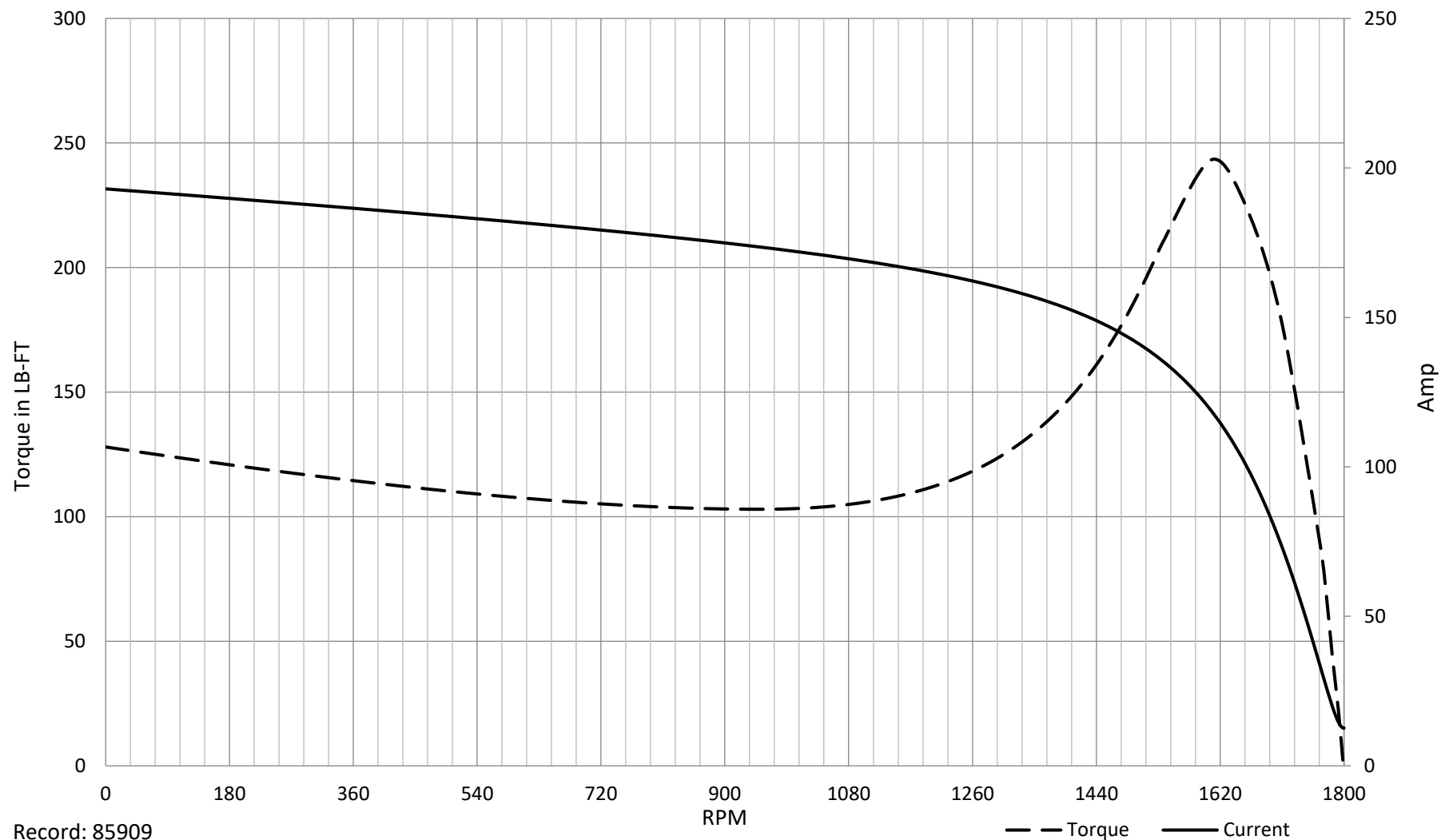
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	10	72	89	92	91	90	89	90
Efficiency	0	85.7	90.7	92.2	92.4	92.1	90.9	92.2
Speed	1799	1792	1783	1775	1765	1755	1741	1759
Line amperes	8.71	11.42	17.37	24.9	33.41	42.48	52.34	38.9

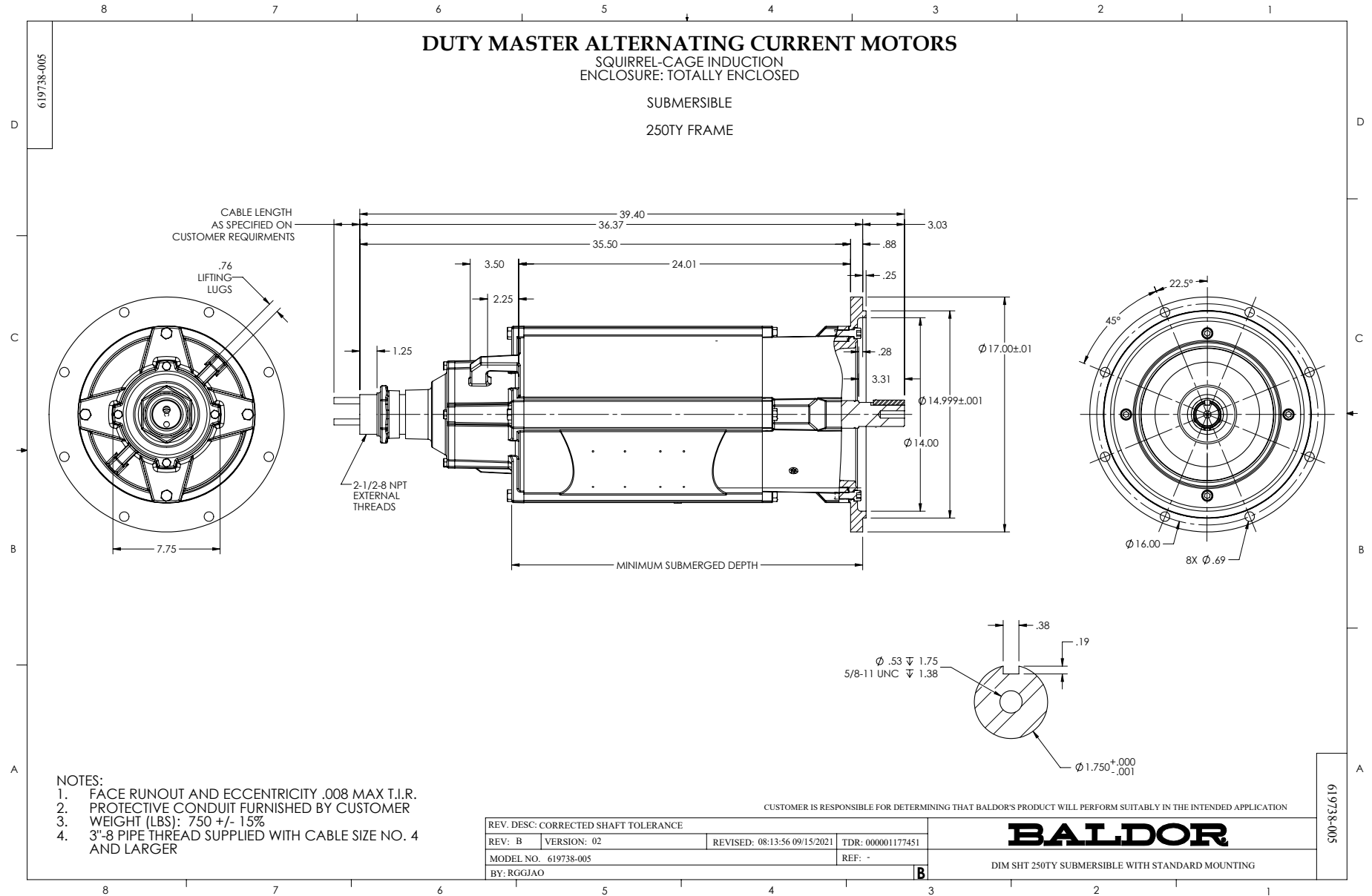
SPEED TORQUE / SPEED CURRENT CURVES



09WGA0209

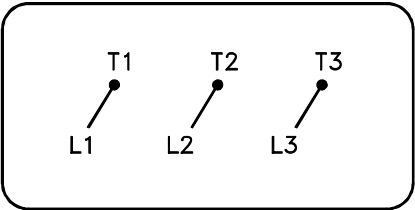
30HP 460V 60HZ





416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

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

416820-036

