ABB BALDOR RELIANCE

Customer information packet

SUM73004SM-4

30HP, 1760RPM, 3PH, 60HZ, 250TY, XPNV, V1
Class - CLI GP C,D
Division - Not Applicable

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11/19/2026 11:09:36 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
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	1.437 IN
Shaft Rotation	Reversible

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85909
Layout	619738-006
Eff. date	12-10-2024
CD Diagram	416820-036
Poles	///
Leads	
Proprietary	False
Created date	05-24-2021

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

Nameplate

000613007MS												
CAT.NO.	SUM73004SM-4			**SPEC NO.**	S25-CWS0-0011							
SER.NO.					**FRAME SIZE**	250TY						
	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						
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

CAT.NO.	SUM73004SM-4			**SPEC NO.**	S25-CWS0-0011							
SER.NO.				**FRAME SIZE**	250TY							
	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						
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	FINAL CONN VOLTAGE = 460 *15											
	MIN IN AIR ;SUB. IN SEWAGE /											
	WATER ONLY											

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-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

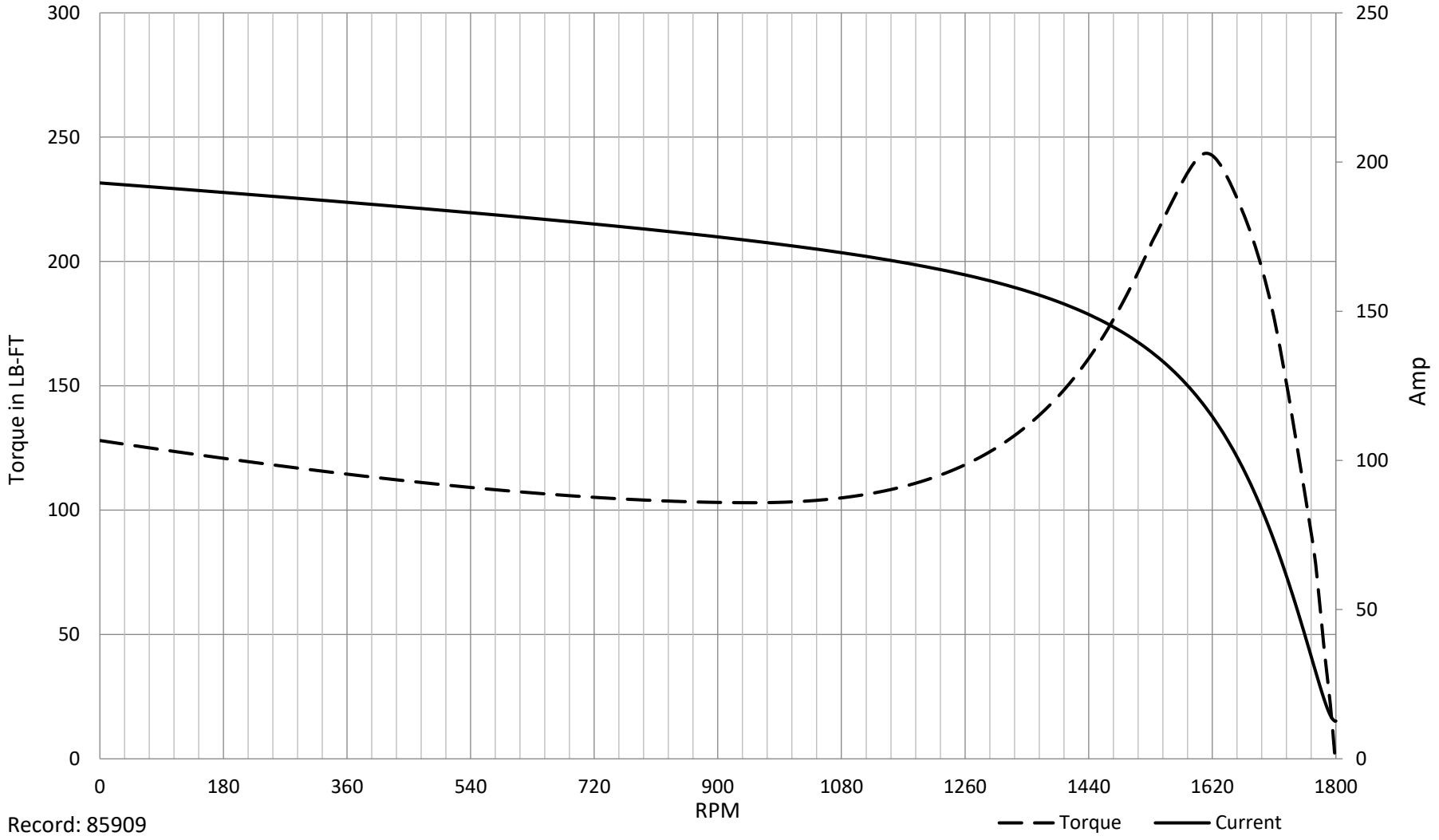
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	10	72	89	92	91	90	89	90
Efficiency	0	85.7	90.7	92.2	92.4	92.1	90.9	92.2
Speed	1799	1792	1783	1775	1765	1755	1741	1759
Line amperes	8.71	11.42	17.37	24.9	33.41	42.48	52.34	38.9

SPEED TORQUE / SPEED CURRENT CURVES

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09WGA0209

30HP 460V 60HZ



Record: 85909

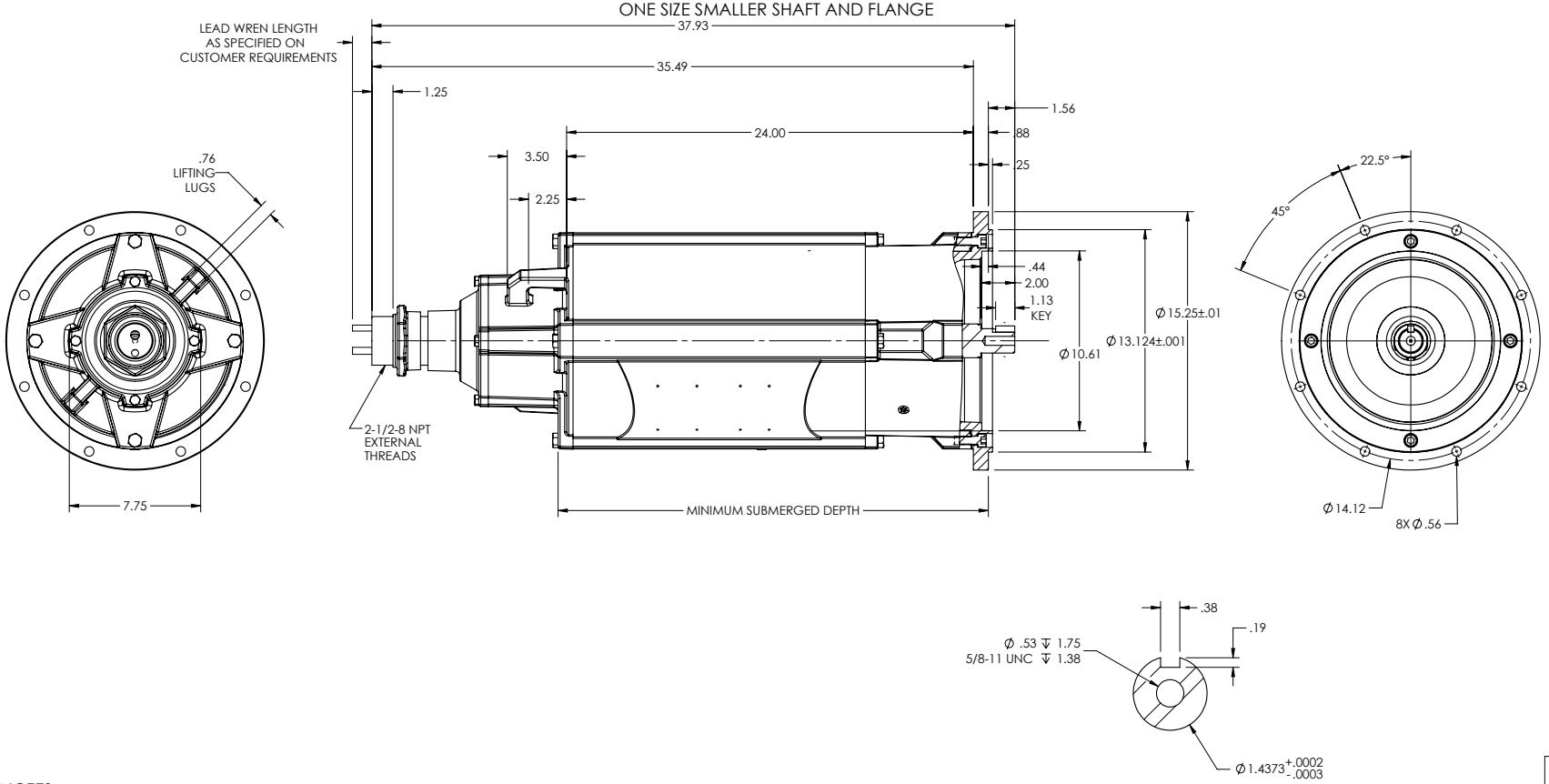
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED

SUBMERSIBLE

250TY FRAME
ONE SIZE SMALLER SHAFT AND FLANGE

619738-006



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 SIZES NO. 4 AND LARGER

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: INITIAL RELEASE			
REV: -	VERSION: 00	REVISED: 02:47:50 09/18/2020	TDR: 000001147566
MODEL NO. 619738-006			REF: -
BY: RGGJAO			B

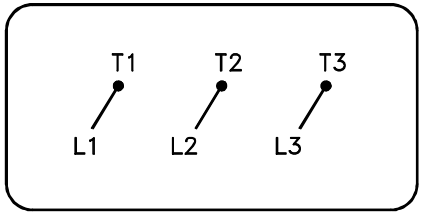
BALDOR

DIM SHT 250TY SUBMERSIBLE ONE SIZE SMALLER SHAFT AND FLANGE

619738-006

416820–036

A–C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED

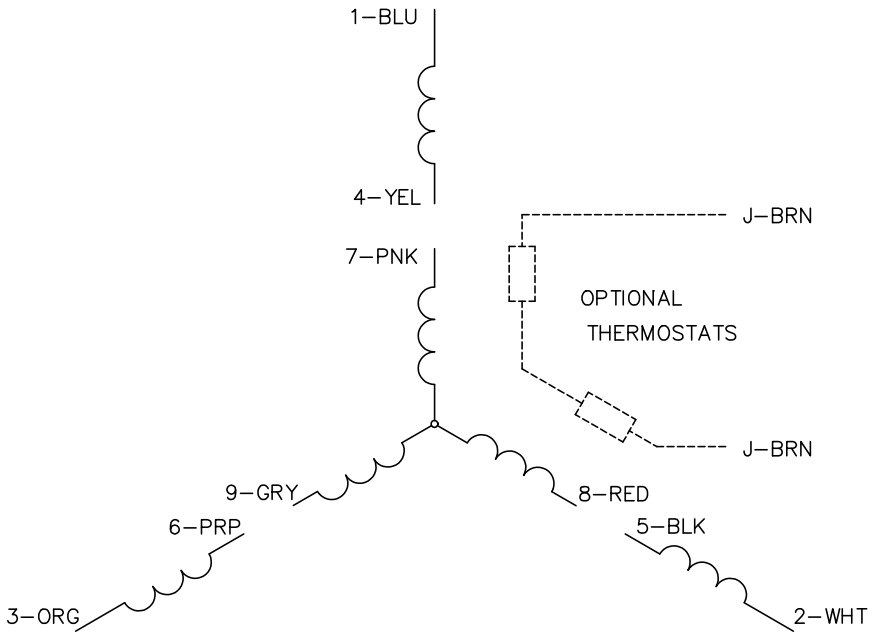


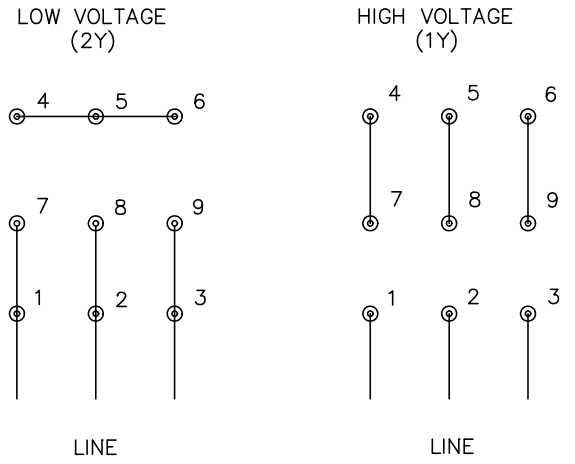
(N.P. 1575–BA)

416820–036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	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.

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