ABB BALDOR RELIANCE

Customer information packet

SUM72506-4

25HP, 1160RPM, 3PH, 60HZ, 250TY, XPNV, V1
Class - CLI GP C,D
Division - Not Applicable

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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	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	1.750 IN
Shaft Rotation	Reversible

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85928
Layout	619738-005
Eff. date	12-10-2024
CD Diagram	416820-036
Poles	///
Leads	
Proprietary	False
Created date	05-20-2021

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

Nameplate

000613007MS											
CAT.NO.	SUM72506-4			**SPEC NO.**	S25-CWS0-0004						
SER.NO.				**FRAME SIZE**	250TY						
	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					
CONSTANT HP RPM		**@**		**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

CAT.NO.	SUM72506-4			**SPEC NO.**	S25-CWS0-0004							
SER.NO.				**FRAME SIZE**	250TY							
	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						
CONSTANT HP RPM		**@**		**HZ**	**CODE**	F						
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	FINAL CONN VOLTAGE = 460 *15											
	MIN IN AIR ;SUB. IN SEWAGE /											
	WATER ONLY											

Parts List

Part number	Description	Quantity
SA393775	SA S25-CWS0-0004	1.000 ea
RA384447	RA S25-CWS0-0004	1.000 ea
424476003WL	WIRING DIAGRAM MEDIUMA	1.000 ea
424476003WL	WIRING DIAGRAM MEDIUMA	1.000 ea
000901001AA	LABEL WARNING	1.000 ea
000692000EJ	NAME PLATE	1.000 ea
000692000WC	WARNING FLAMMABLE VAPORS MAY BE PRESENT	2.000 ea
000613007MS	NP, MEDIUM AC,INVERTER DUTY CSA,STD INDU	1.000 ea
000901001AA	LABEL WARNING	1.000 ea
000613007RC	C UL US NAMEPLATE FOR HAZARDOUS LOC	1.000 ea
000692000MB	BALDOR RELIANCE MOTOR DATA NAMEPLATE	1.000 ea
000613007MS	NP, MEDIUM AC,INVERTER DUTY CSA,STD INDU	1.000 ea
034692002AE	HCSPP 1/4" 304 S.S.	1.000 ea
088209001AB	BRKT,DE,250SUB 88209-1WCD	1.000 ea
004824015A	GREASE POLYREX EM	0.200 lb
032018014DG	HHCS1/2-13X1-3/4 3165SS	4.000 ea
421900168FU	ORING	1.000 ea
004824018AF	SHELL ROTELLA OIL 10W	1.000 lb
603762001AA	LABRYNTH BLKT	1.000 ea
413480001R	RESISTOR ASSEMBLY-BLANKET	1.000 ea
413412006T	LEAD WIRE ASSY	1.000 ea
413412004A	SUBM MOISTURE PROBE	2.000 ea
421900168FU	ORING	1.000 ea
088211001AA	PLTE 250 88211-1WB	1.000 ea
032130010DC	HSHCS 1/2-13X1-1/4 304SS	4.000 ea
032620020JD	HSSS 10-24X5/8L 304S.S.	1.000 ea
421900168FU	ORING	1.000 ea
088210001AB	BRKT,DE,250SUB 88210-1WB	1.000 ea
032018014DG	HHCS1/2-13X1-3/4 3165SS	4.000 ea
032018008BG	HHCS 5/16-18X1 316 SS	3.000 ea
064262012D	SEAL - Mech Ceramic Seal	1.000 ea

034141225AC	RING, RETAINING	1.000 ea
034692003AE	PPLG 3/8" 304 S.S.	2.000 ea
047174005D	SNAP RING	1.000 ea
064262012E	SEAL	1.000 ea
032080003LB	HWHMS 1/4-20X3/8L PLTED	3.000 ea
032080003JB	HWHMS 10-24X3/8L PLTED	4.000 ea
415031017B	NUT W/WASHER1/4-20 C.P	3.000 ea
047024003J	TERMINAL LUG	9.000 ea
700385014AP	CCA	1.000 ea
415031017A	NUT W/WASHER 10-24 C.PLT	4.000 ea
421900092FU	ORING	1.000 ea
032018010CG	HHCS 3/8-16X1-1/4L 316SS	4.000 ea
032018006BM	HHCS 5/16-18X3/4 PLTGRN.	1.000 ea
032018006BM	HHCS 5/16-18X3/4 PLTGRN.	1.000 ea
034036013AB	LCKW 5/16 EXT.TOOTH LCKW	1.000 ea
047024003AH	T/LUG AMP 34112	4.000 ea
609181014D	HEAT SHRINK TUBING 3/4	7.000 ea
004824007K	SPECIAL PAINT	0.100 ea
033775004EA	DRSCR #6-1/4 304 S.S.	8.000 ea
034180018FD	KEY 3/8X3/8X2-1/4L 303SS	1.000 ea
B3630-9	SUBM THERMOSTAT TAG	1.000 ea
B-3664002	TAG, (NON REGREASABLE)	1.000 ea

AC induction motor performance data

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-ft²

Load Characteristics 460 V, 60 Hz, 25 HP

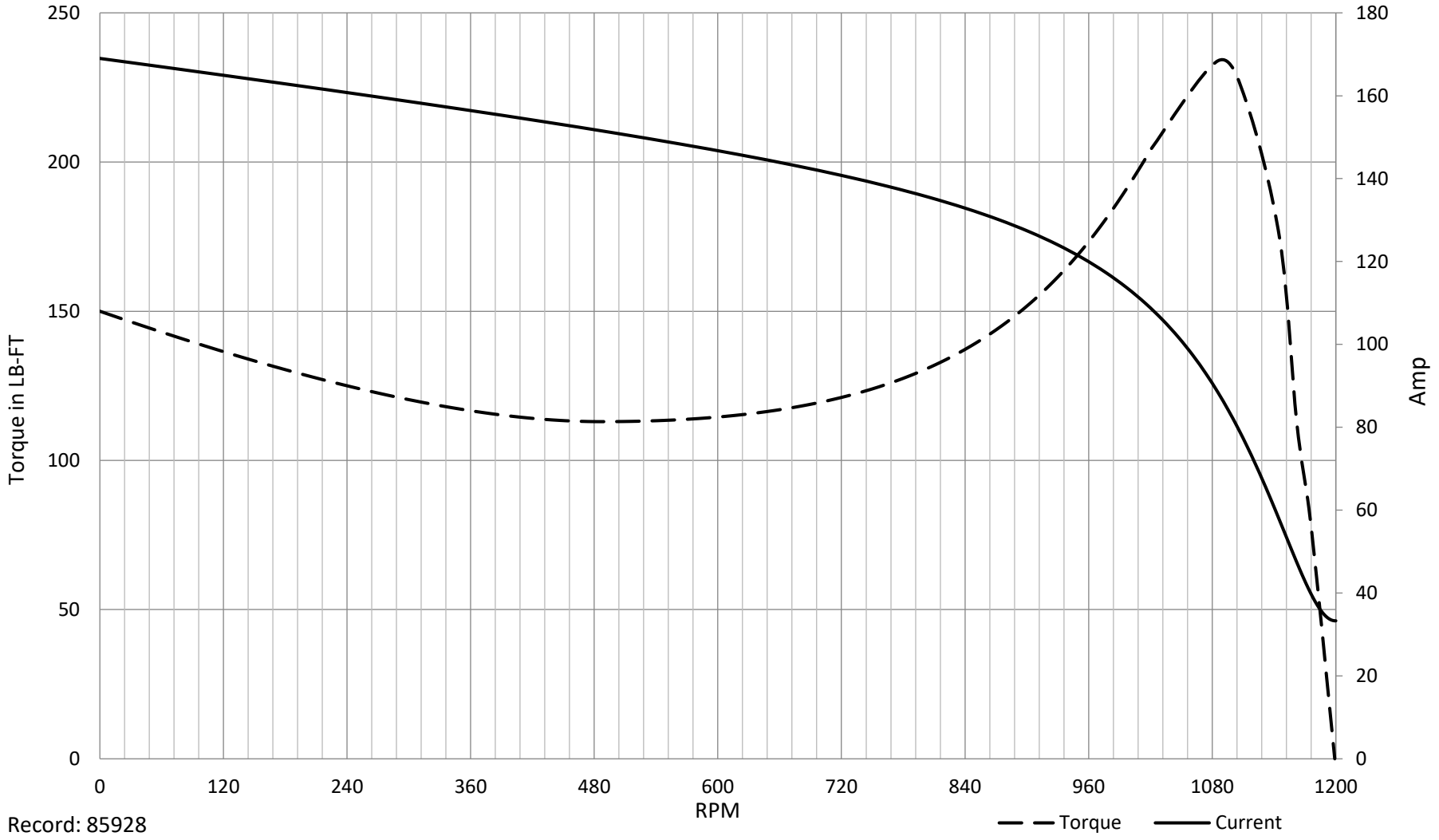
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	31	49	60	65	66	63	66
Efficiency	0	83.6	88.1	88.2	87.5	84.1	78.6	85.5
Speed	1199	1191	1183	1174	1162	1146	1110	1152
Line amperes	21.27	22.66	26.83	33.06	41.22	51.94	71.23	47.7

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

09WGA0210

25HP 460V 60HZ



Record: 85928

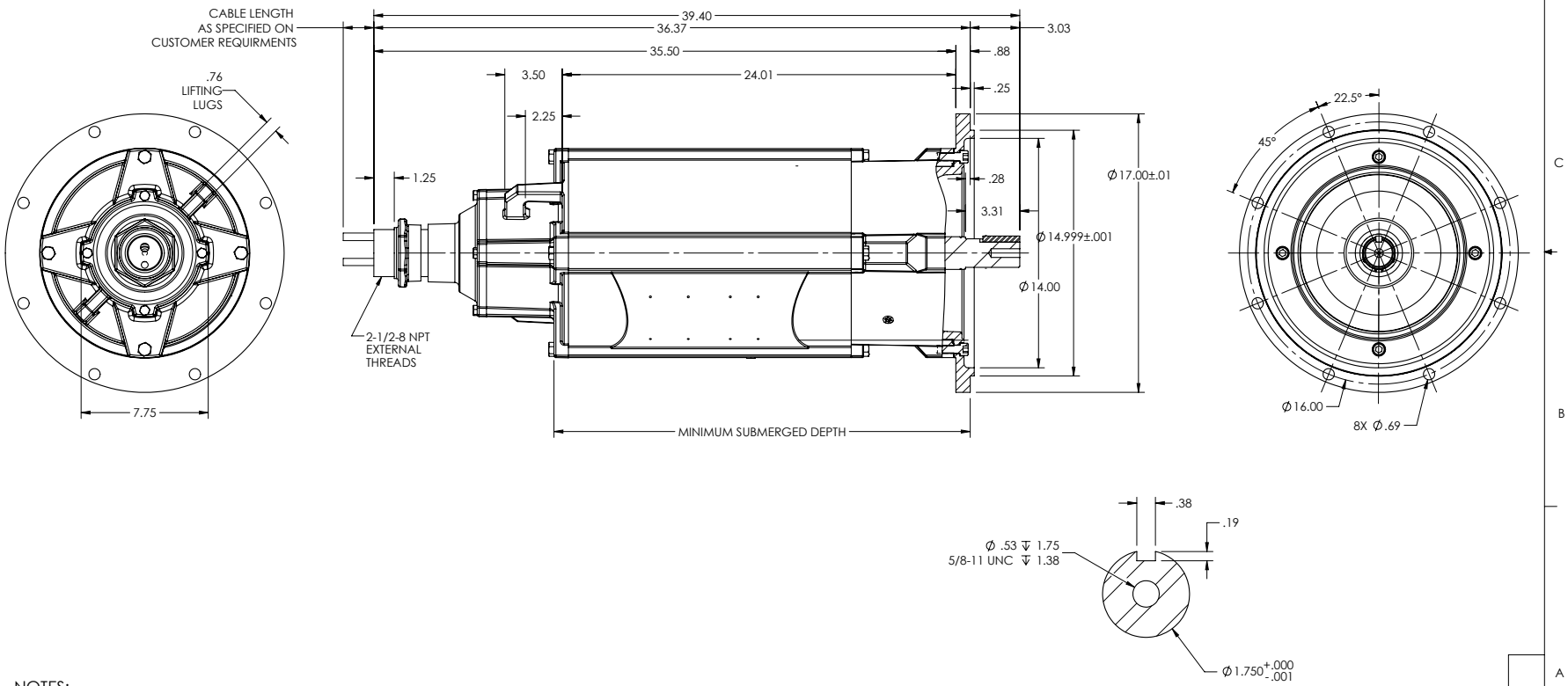
DUTY MASTER ALTERNATING CURRENT MOTORS

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

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

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

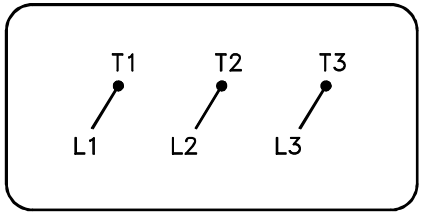
BALDOR

DIM SHT 250TY SUBMERSIBLE WITH STANDARD MOUNTING

619738-005

416820–036

A–C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED

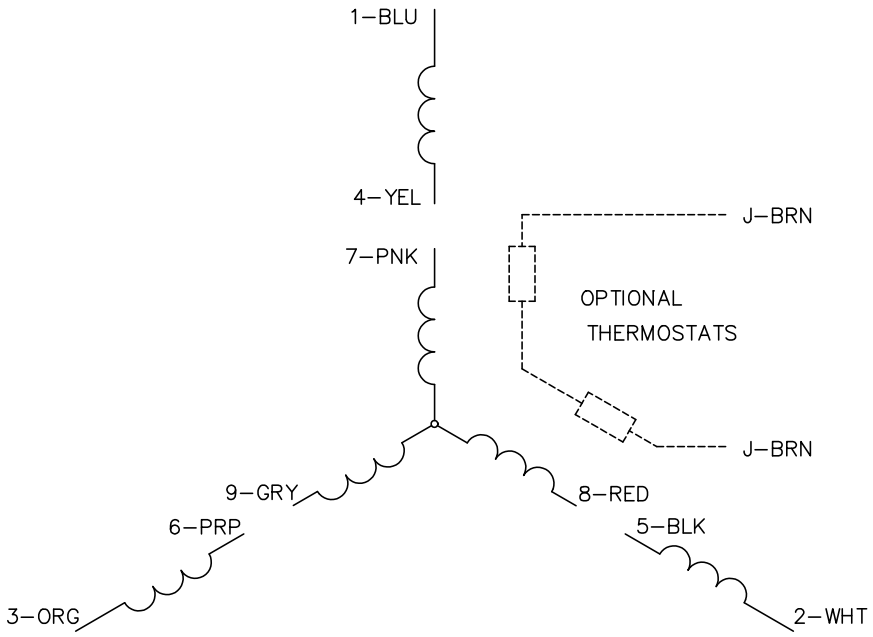


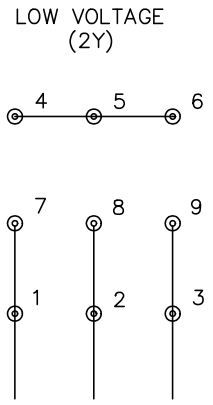
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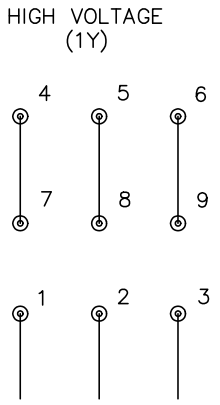
416820–036

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