ABB BALDOR RELIANCE

Customer information packet

SUM71004-4

10HP, 1765RPM, 3PH, 60HZ, 210TY, XPNV, V1
Class - CLI GP C,D
Division - Not Applicable

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Specifications

Enclosure	XPNV
Frame	210TY
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	NO CABLE
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	H
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	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	86077
Layout	619738-003
Eff. date	12-10-2024
CD Diagram	416820-001
Poles	///
Leads	
Proprietary	False
Created date	08-10-2021

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

Nameplate

000613007MS											
CAT.NO.	SUM71004-4			**SPEC NO.**	S21-CWS0-0009						
SER.NO.				**FRAME SIZE**	210TY						
	HP	**RPM**	**VOLTS**	**AMPS**	**HZ**	**S.F.**					
	10	1765	230/460	25/12.5	6-60	1.00					
	10	1765	230/460	25/12.5	60	1.15					
CONSTANT HP RPM		**@**		**HZ**	**CODE**	H					
TYPE	P	**INSUL.CLASS**	F	**TORQUE**	10:1_VT		**DESIGN**	B			
D.E. BRG.	60BC02JPP30A			**ENCL**	TENV	**DUTY**	15MIN	**PH**	3		
O.D.E. BRG.	30BC02JPG30A			**MOTOR WEIGHT**			**AMB**	40			
	FINAL CONN VOLTAGE = 460 *15										
	MIN IN AIR ;SUB. IN 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.	SUM71004-4			**SPEC NO.**	S21-CWS0-0009							
SER.NO.				**FRAME SIZE**	210TY							
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	FINAL CONN VOLTAGE = 460 *15											
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	ONLY											

AC Induction motor performance data

Record #86077 - Typical performance - not guaranteed values

Winding	07WGA0017
Type	0738M
Enclosure	TENV

Nameplate data

Rated Output			10
Volts			230/460
Full Load Amps			25/12.5
R.P.M.			1765
Hz	60	Phase	3
KVA Code			H
S.F.			1.15
NEMA Nom. Eff.	90.2	Power Factor	82
Duty			15 MIN
S.F. Amps			

460 V, 60 Hz:
High Voltage Connection

Full Load Torque	29.74 LB-FT
Start Configuration	direct on line
Breakdown Torque	83.88 LB-FT
Pull-up Torque	29.9 LB-FT
Locked-rotor Torque	45.11 LB-FT
Starting Current	87.77 A
No-load Current	4.92
Line-line Res. @ 25°C	1.25 Ω
Temp. Rise @ Rated Load	15°C
Temp. Rise @ S.F. Load	18°C
Locked-rotor Power Factor	37.1
Rotor inertia	0.934 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

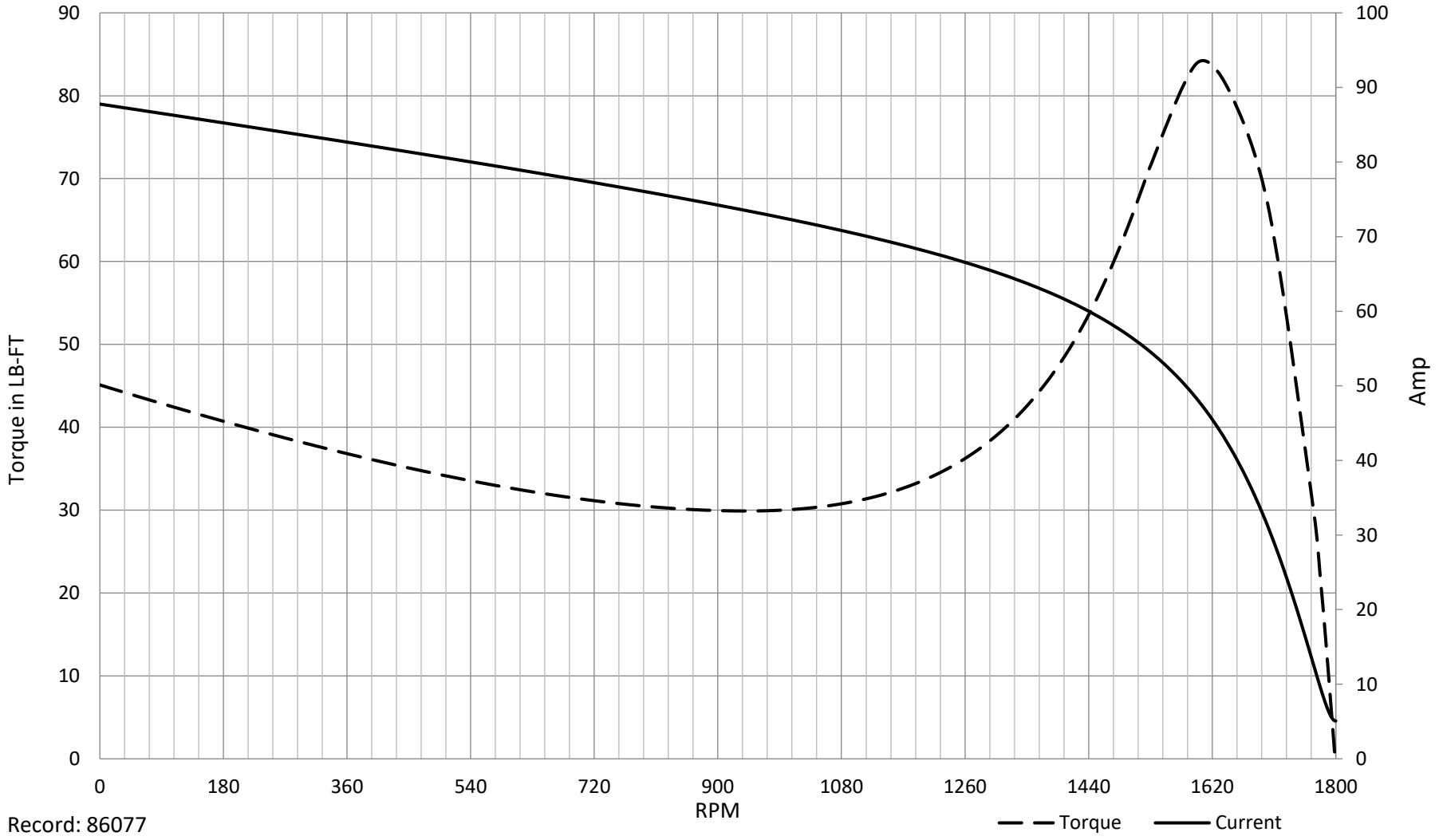
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	6	47	68	78	82	84	84	83
Efficiency	0	88.1	90.8	91.9	90.9	90	88.6	90.4
Speed	1799	1792	1785	1777	1768	1758	1747	1762
Line amperes	4.92	5.73	7.53	9.86	12.49	15.44	18.79	14.3

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

07WGA0017

10HP 460V 60HZ



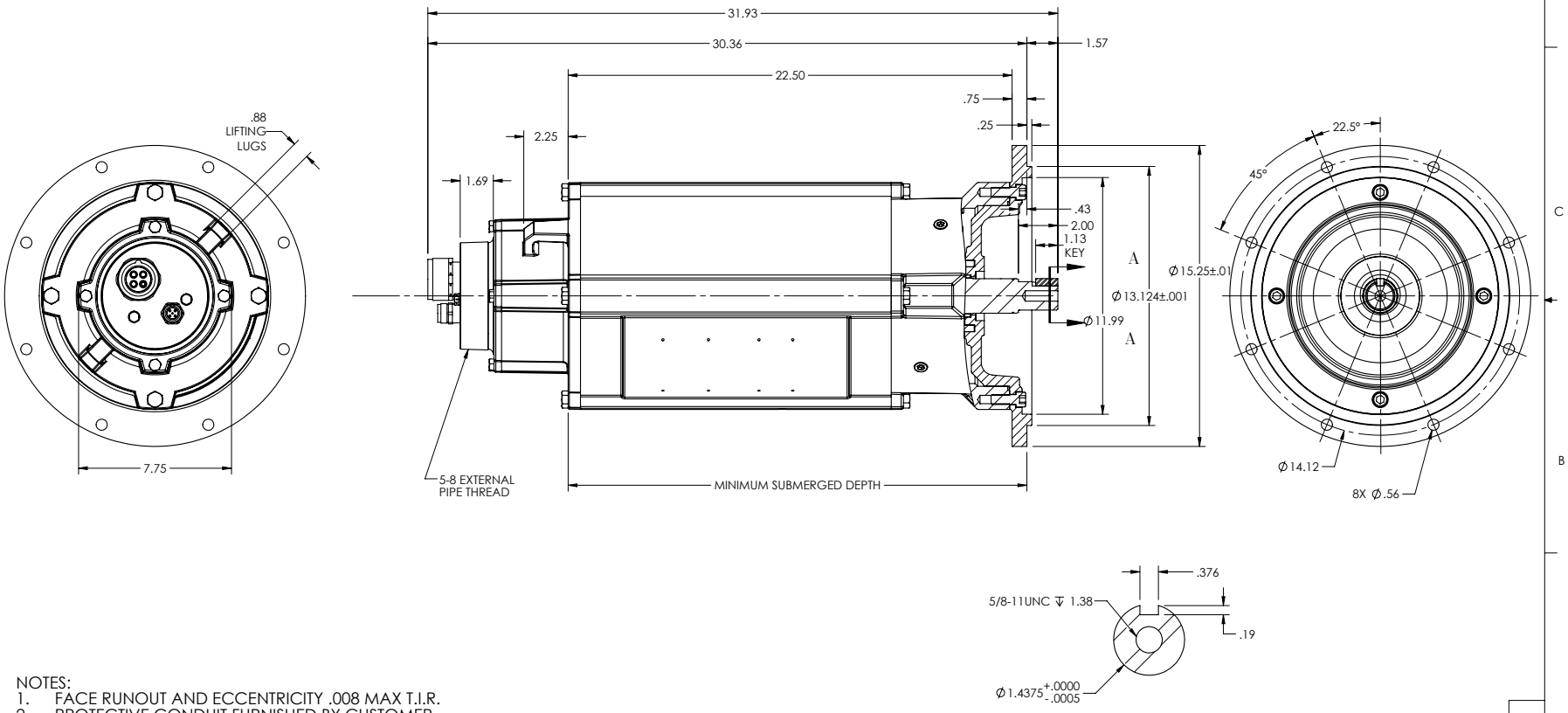
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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED

SUBMERSIBLE

619738-003



NOTES:
1. FACE RUNOUT AND ECCENTRICITY .008 MAX T.I.R.
2. PROTECTIVE CONDUIT FURNISHED BY CUSTOMER
3. WEIGHT (LBS): 315 +/- 15%
4. PROVIDED WITH CABLE CONNECTORS TO LENGTH OF CABLE AS REQUESTED BY CUSTOMER.

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

REV. DESC: INITIAL RELEASE			
REV: -	VERSION: 00	REVISED: 02:38:57 01/21/2020	TDR: 000001129112
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BY: RGGJAO			B

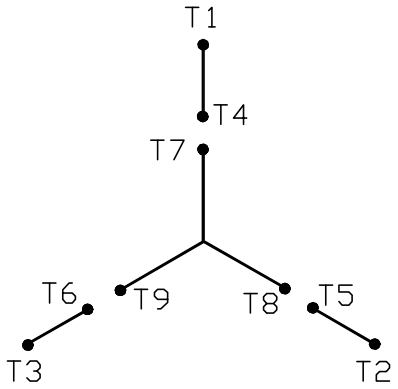
BALDOR

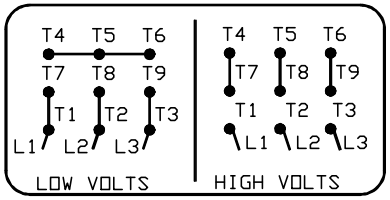
DIM SHT 210TY SUBMERSIBLE WITH CABLE CONNECTORS

619738-003

416820-001

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD Y CONNECTED





(N. P. 1575-A)

416820-001

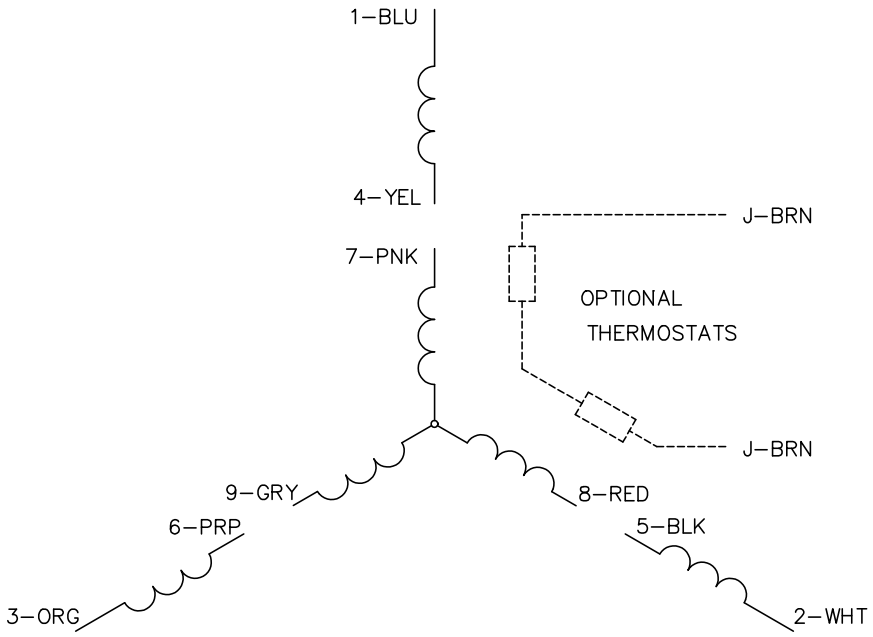
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MTL: –		

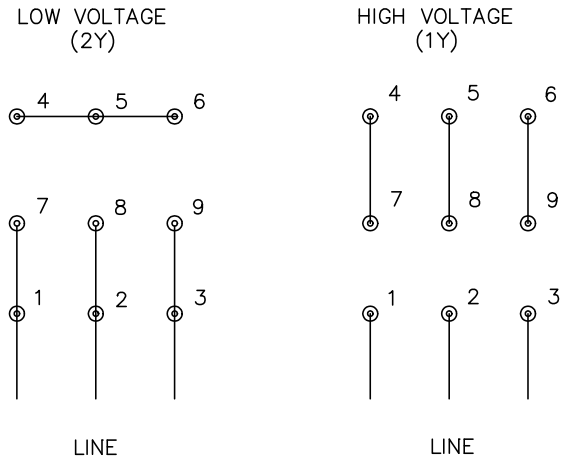
BALDOR

CONN DIAG – STANDARD 9 LEAD, Y CONNECTED

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.
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CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS