ABB BALDOR RELIANCE

Customer information packet

SUM21504-4

15HP, 1765RPM, 3PH, 60HZ, 210TY, TENV, V1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	210TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
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
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
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	86078
Layout	619738-019
Eff. date	12-10-2024
CD Diagram	
Poles	///
Leads	
Proprietary	False
Created date	07-12-2024

Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007MS

CAT.NO.	SUM21504-4			**SPEC NO.**	S21-CWS0-0304							
SER.NO.					**FRAME SIZE**	210TY						
	HP	**RPM**	**VOLTS**	**AMPS**	**HZ**	**S.F.**						
	15	1765	230/460	38/19	6-60	1.00						
	15	1765	230/460	38/19	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**	370		**AMB**	40				
	FINAL CONN VOLTAGE = 460 *15											
	MIN IN AIR											

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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	FINAL CONN VOLTAGE = 460 *15											
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AC Induction motor performance data

Record #86078 - Typical performance - not guaranteed values

Winding	07WGA0018
Type	0746M
Enclosure	XPNV

Nameplate data

Rated Output			15
Volts			230/460
Full Load Amps			38/19
R.P.M.			1765
Hz	60	Phase	3
KVA Code			H
S.F.			1.15
NEMA Nom. Eff.	90.1	Power Factor	82
Duty			15 MIN
S.F. Amps			

460 V, 60 Hz:
High Voltage Connection

Full Load Torque	44.66 LB-FT
Start Configuration	direct on line
Breakdown Torque	115 LB-FT
Pull-up Torque	45 LB-FT
Locked-rotor Torque	63.2 LB-FT
Starting Current	121 A
No-load Current	7.16
Line-line Res. @ 25°C	0.904 Ω
Temp. Rise @ Rated Load	35°C
Temp. Rise @ S.F. Load	43°C
Locked-rotor Power Factor	37.5
Rotor inertia	1.13 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

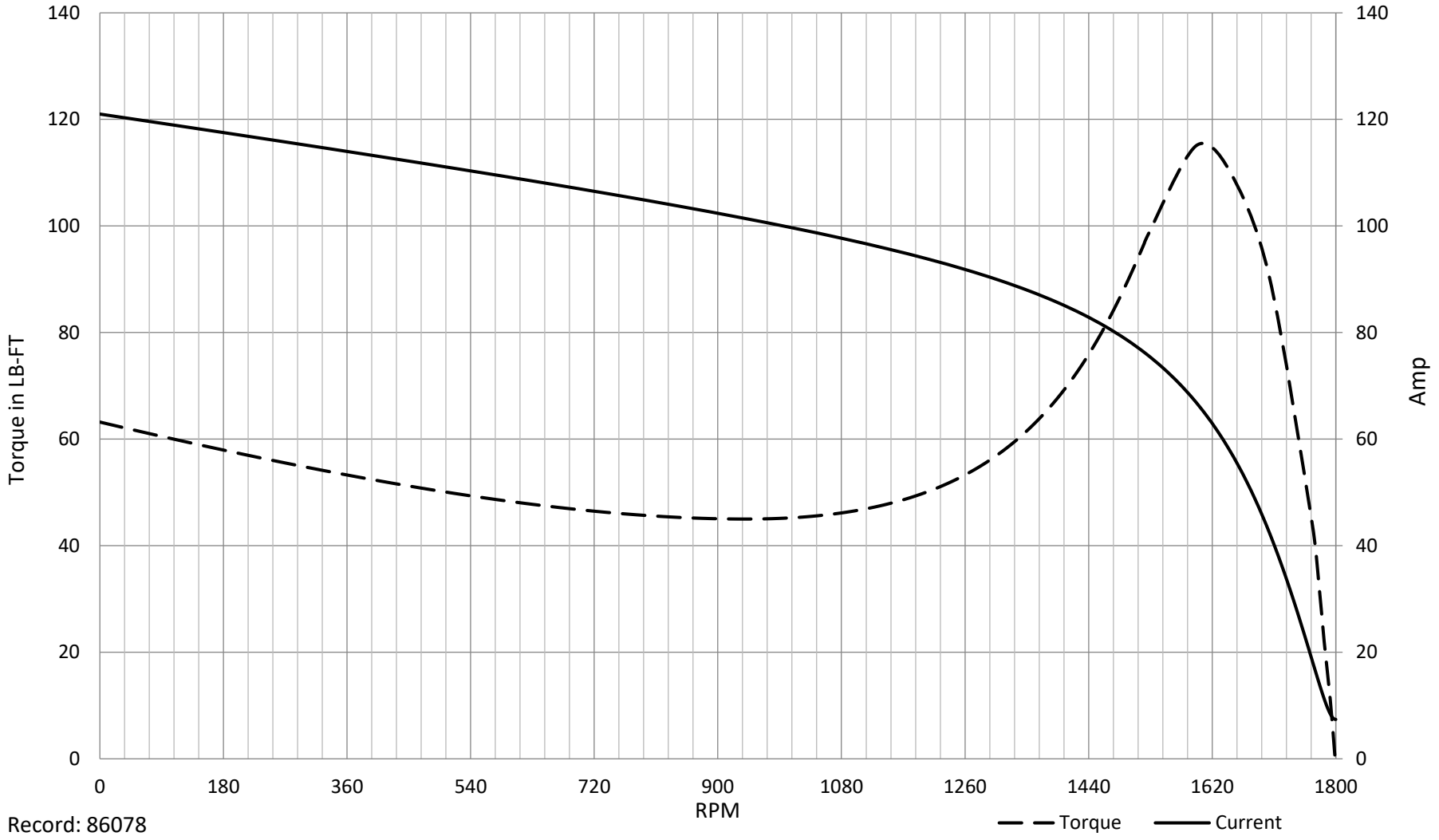
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	47	69	78	82	84	84	83
Efficiency	0	88.9	91.4	91.9	90.9	89.9	88	90.3
Speed	1799	1792	1783	1775	1765	1754	1741	1758
Line amperes	7.16	8.37	11.13	14.65	18.74	23.33	28.59	21.5

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

07WGA0018

15HP 460V 60HZ



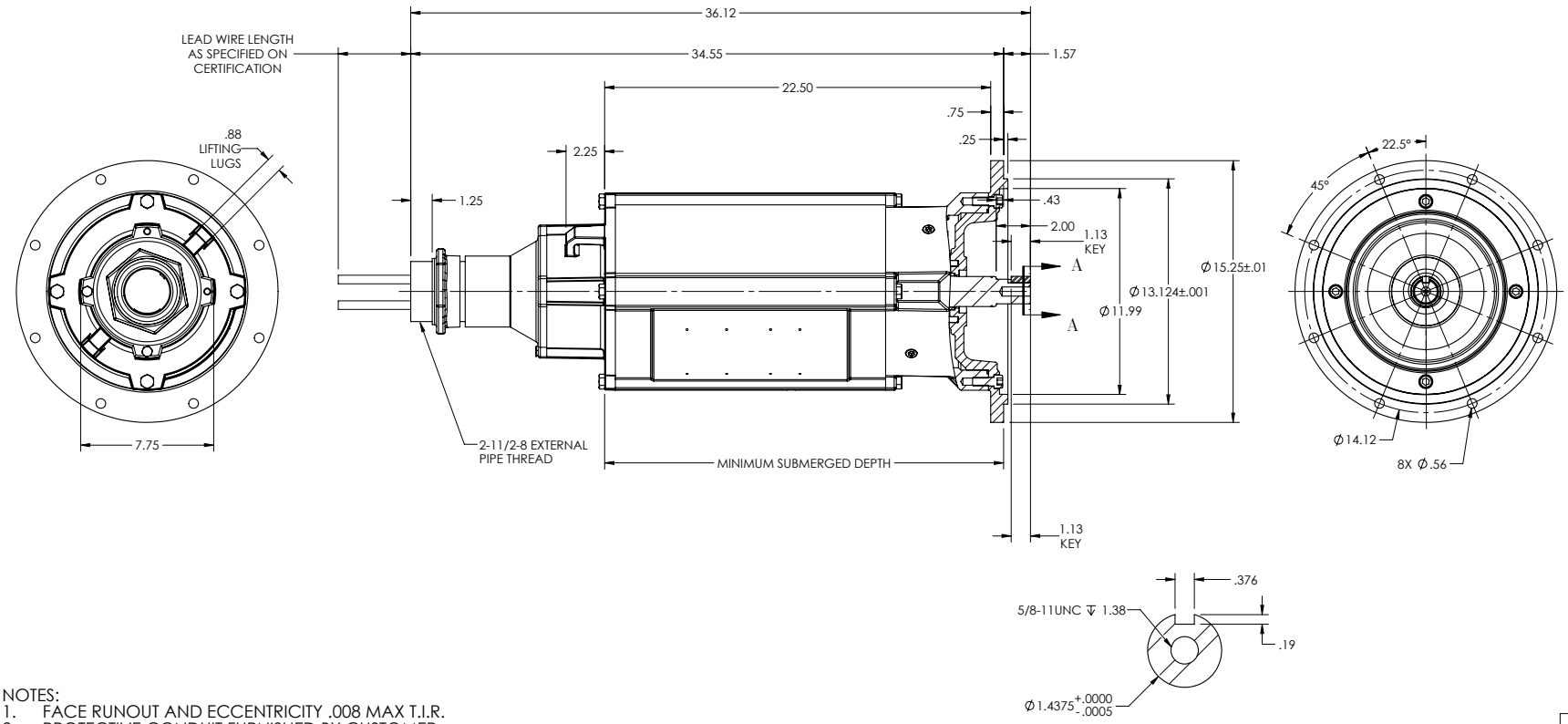
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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED

SUBMERSIBLE

619738-019



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

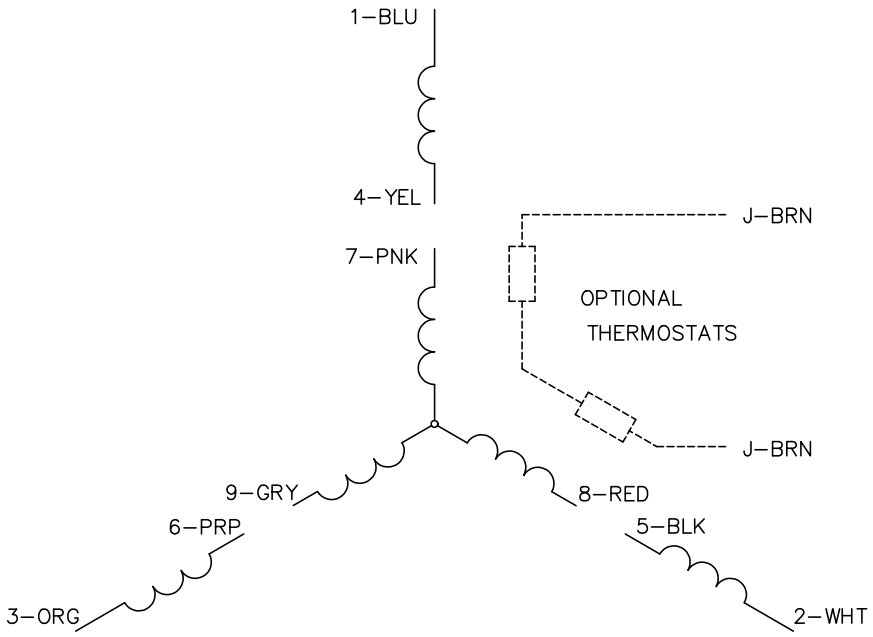
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REV: -	VERSION: 00	REVISED: 12:54:39 11/11/2021	TDR: 000001180818
MODEL NO. 619738-019			REF: -
BY: USWATUR			B

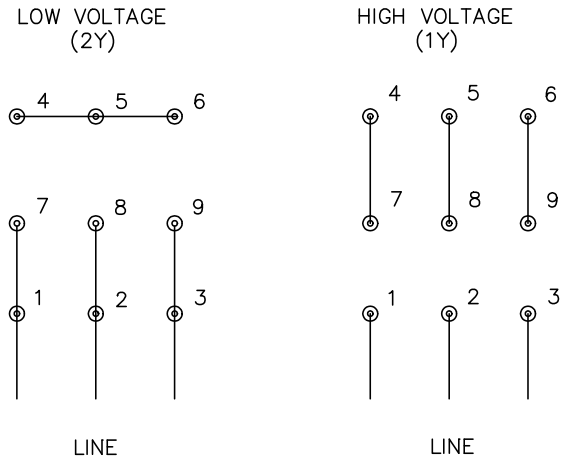
BALDOR

DIM SHT,210TY,SUB STANDARD FLG & SHAFT,OLD STYLE CCA

619738-019

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