ABB BALDOR RELIANCE

Customer information packet

SUM21504

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
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	01
Mounting Arrangement	V1
Number of Poles	4
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	1.437 IN
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed

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	07-11-2024

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

Nameplate

000613007MS

CAT.NO.	SUM21504			**SPEC NO.**	S21-CWS0-0303							
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**			**AMB**	40				
	FINAL CONN VOLTAGE = 230 *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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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

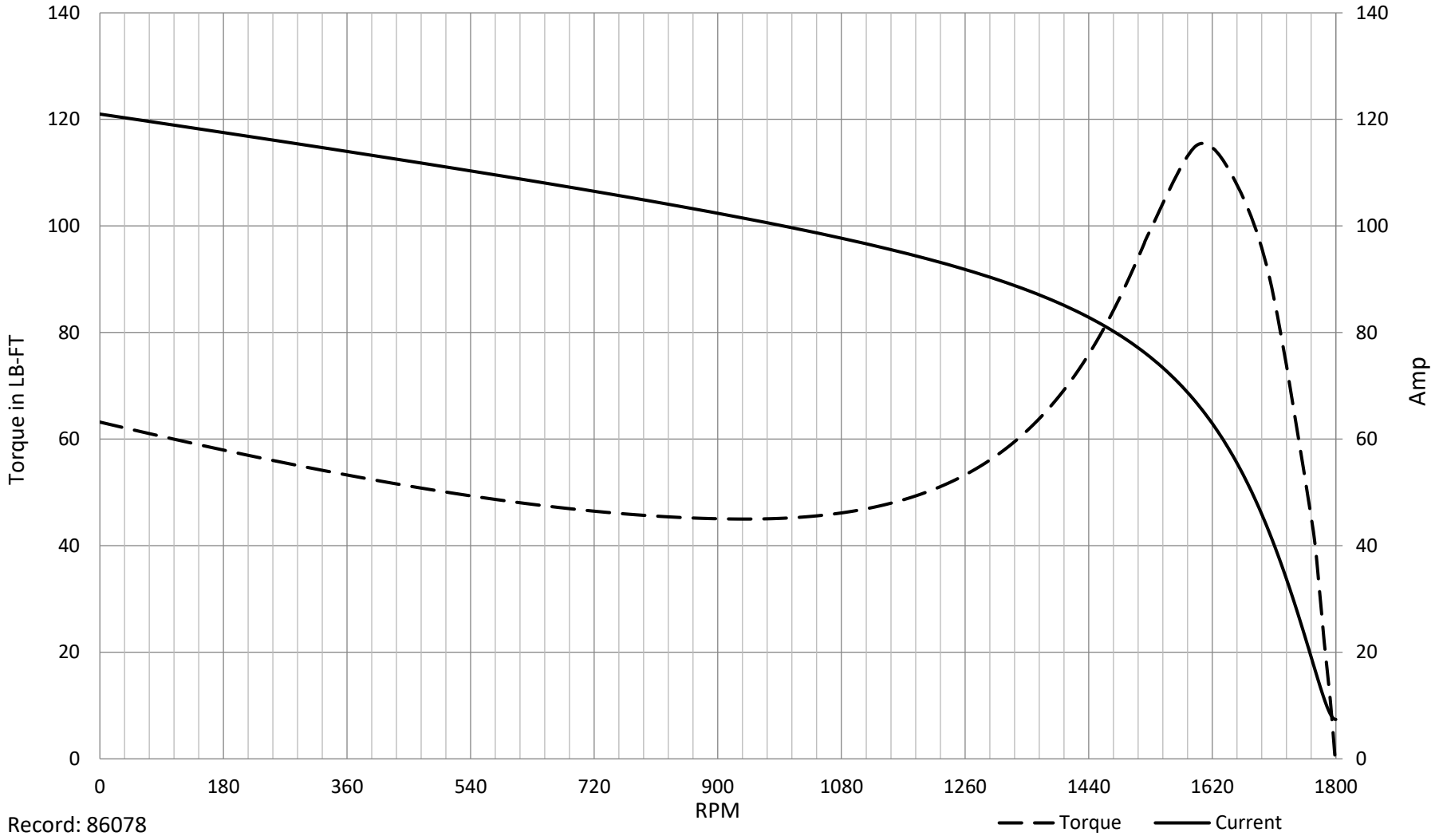
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	47	69	78	82	84	84	83
Efficiency	0	88.9	91.4	91.9	90.9	89.9	88	90.3
Speed	1799	1792	1783	1775	1765	1754	1741	1758
Line amperes	7.16	8.37	11.13	14.65	18.74	23.33	28.59	21.5

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

07WGA0018

15HP 460V 60HZ



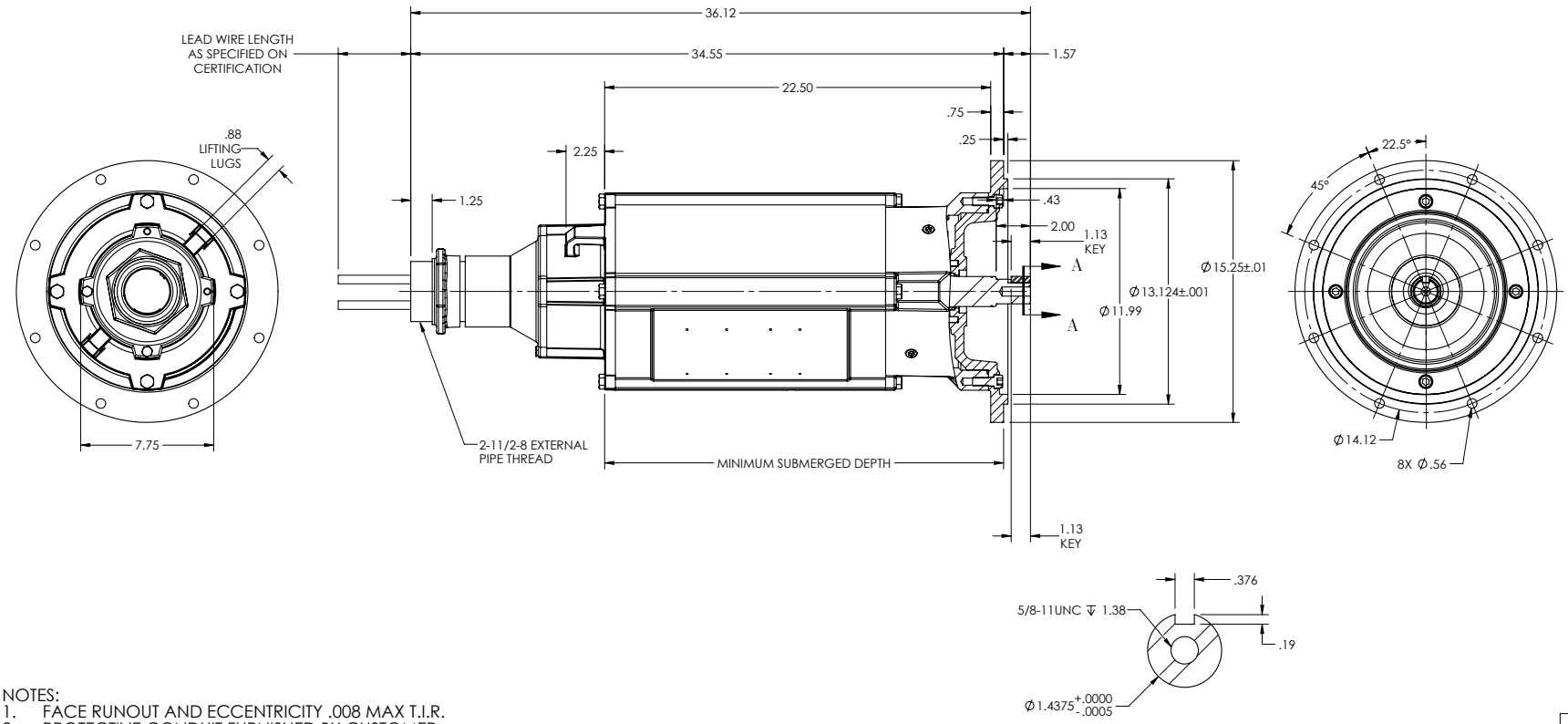
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DUTY MASTER ALTERNATING CURRENT MOTORS

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

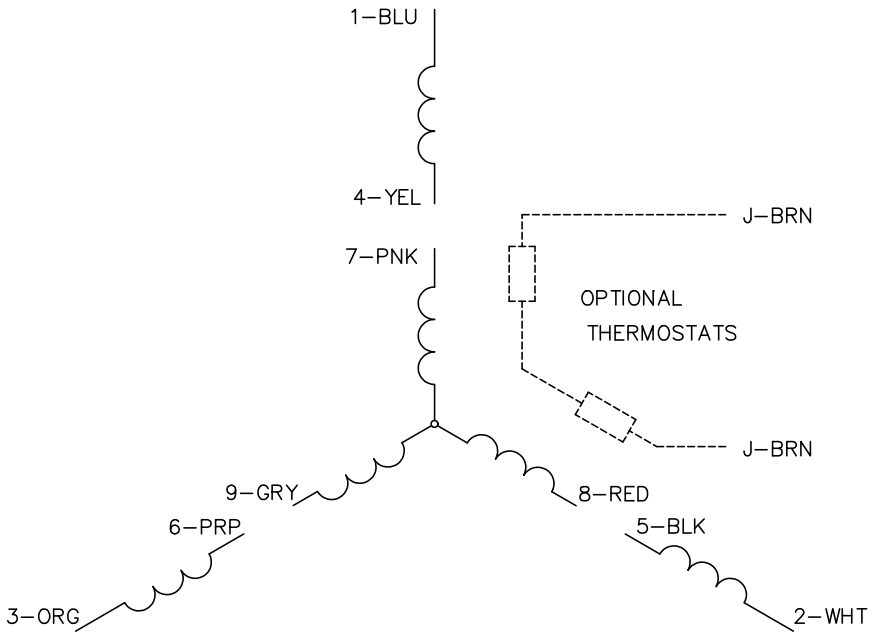
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REV: -	VERSION: 00	REVISED: 12:54:39 11/11/2021	TDR: 000001180818
MODEL NO. 619738-019			REF: -
BY: USWATUR			B

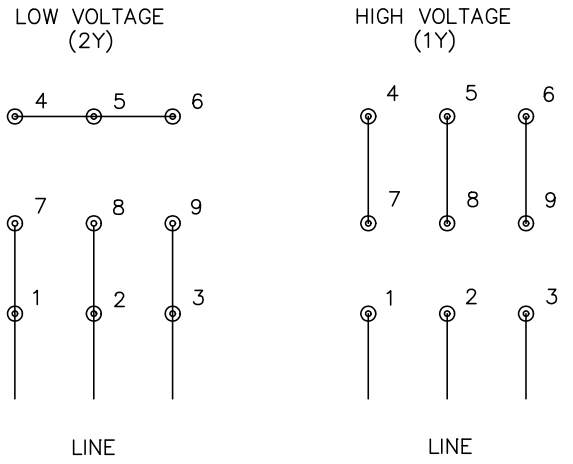
BALDOR

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