

ABB BALDOR RELIANCE III

Customer information packet

SUM21504-4

15HP, 1765RPM, 3PH, 60HZ, 210TY, TENV, V1

Class - None

Division - Not Applicable

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					
CONSTANT HP RPM	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		
	@			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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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
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O.D.E. BRG.	30BC02JPG30A		MOTOR WEIGHT		370	AMB	40	
	FINAL CONN VOLTAGE = 460 *15							
	MIN IN AIR							

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

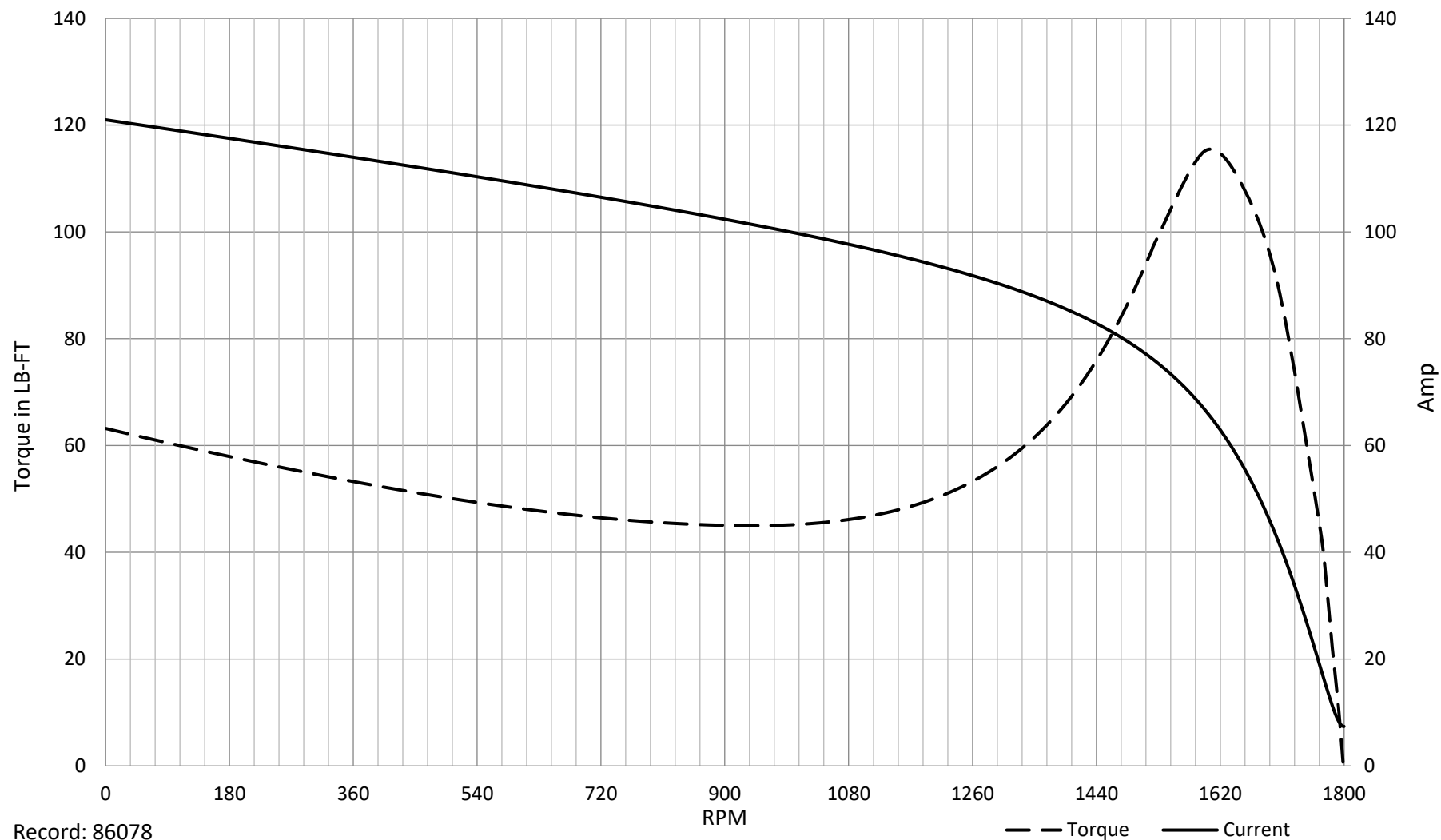
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	47	69	78	82	84	84	83
Efficiency	0	88.9	91.4	91.9	90.9	89.9	88	90.3
Speed	1799	1792	1783	1775	1765	1754	1741	1758
Line amperes	7.16	8.37	11.13	14.65	18.74	23.33	28.59	21.5

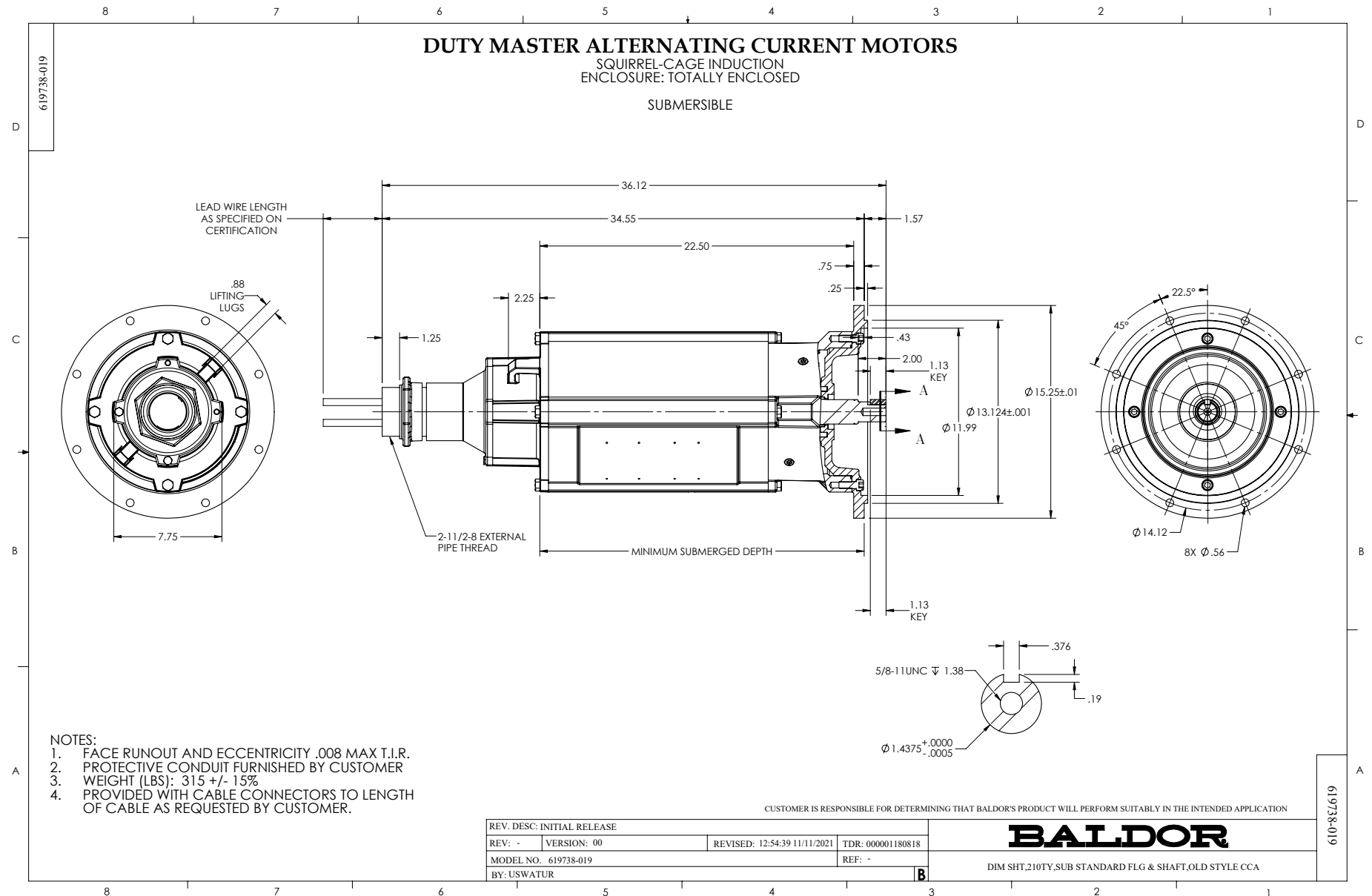
SPEED TORQUE / SPEED CURRENT CURVES



07WGA0018

15HP 460V 60HZ





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005