ABB BALDOR RELIANCE

Customer information packet

SUM21004-4

10HP, 1765RPM, 3PH, 60HZ, 210TY, TENV, V1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/18/2026 5:16:39 PM

Specifications

Enclosure	TENV
Frame	210TY
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)
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
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
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Part Detail

Revision	D
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	07-22-2021

Nameplate

000692000MB
SUITABLE FOR OPERATION ON PWM
INVERTER EQUIPPED WITH IGBT
DEVICES AND CAPABLE OF
CARRIER
FREQUENCY OF 2 KHZ MINIMUM

000613007MS

CAT.NO.	SUM21004-4			**SPEC NO.**	S21-CWS0-0004							
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											

000613007MS

CAT.NO.	SUM21004-4			**SPEC NO.**	S21-CWS0-0004							
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											

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

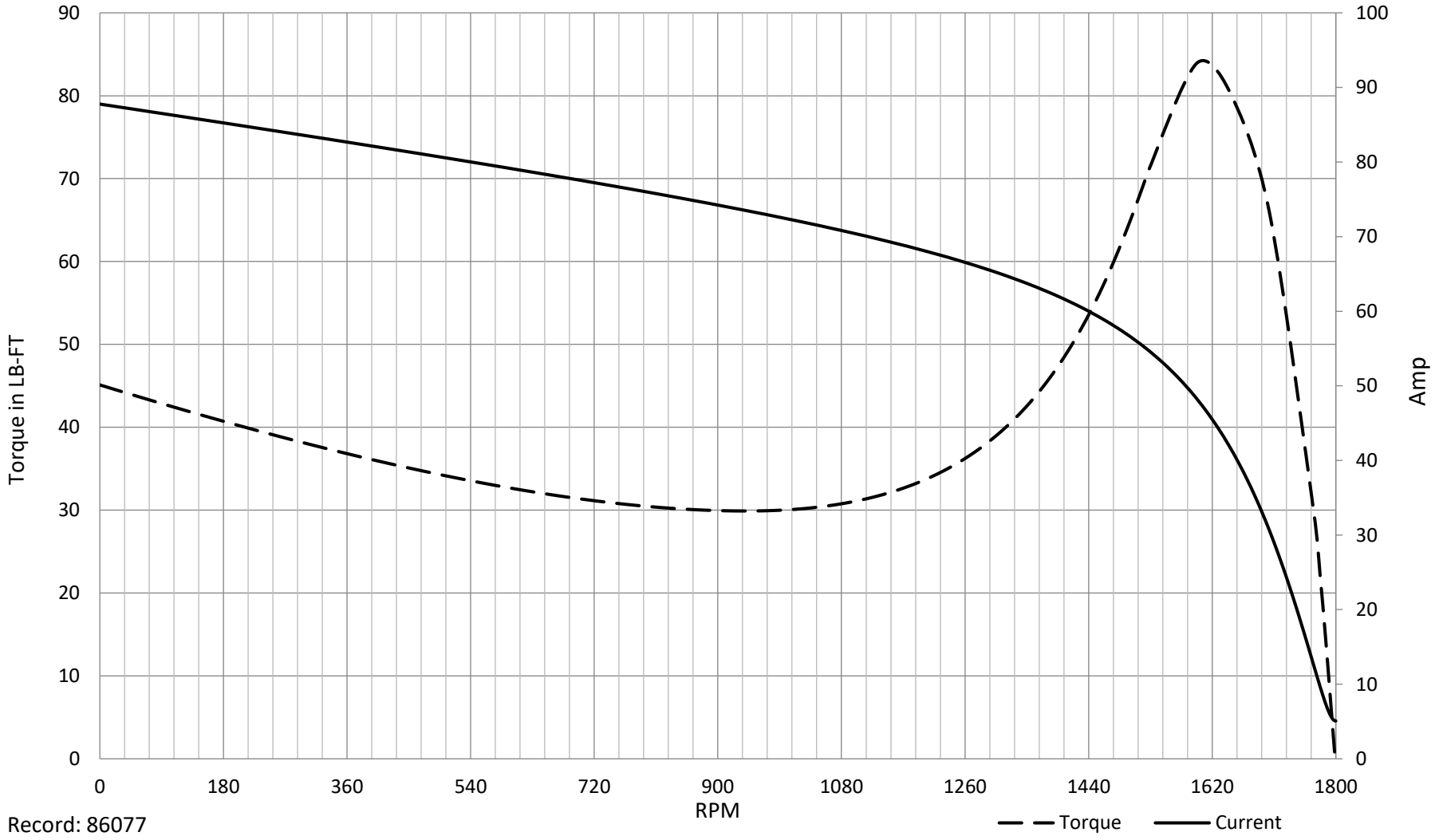
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	6	47	68	78	82	84	84	83
Efficiency	0	88.1	90.8	91.9	90.9	90	88.6	90.4
Speed	1799	1792	1785	1777	1768	1758	1747	1762
Line amperes	4.92	5.73	7.53	9.86	12.49	15.44	18.79	14.3

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

07WGA0017

10HP 460V 60HZ



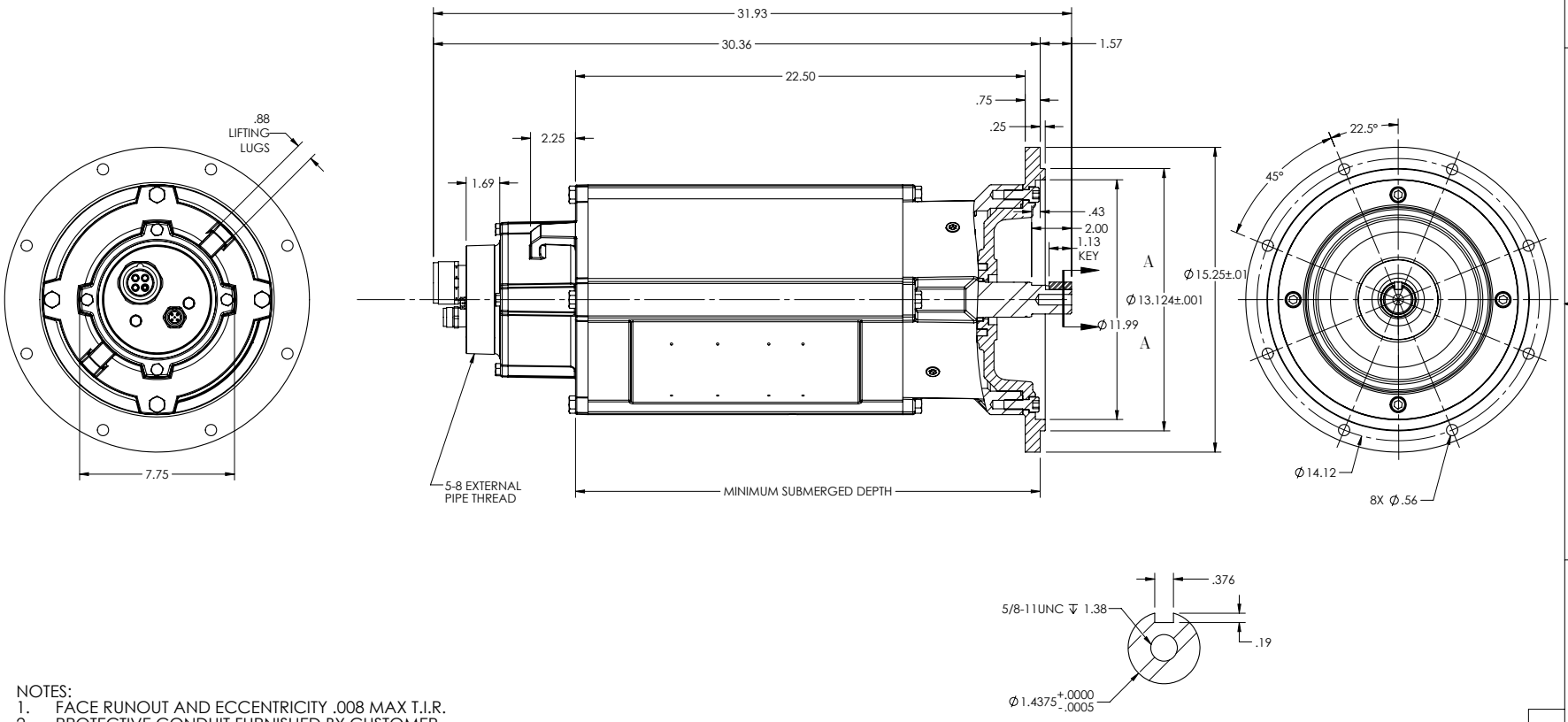
Record: 86077

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
MODEL NO. 619738-003			REF: -
BY: RGGJAO			B

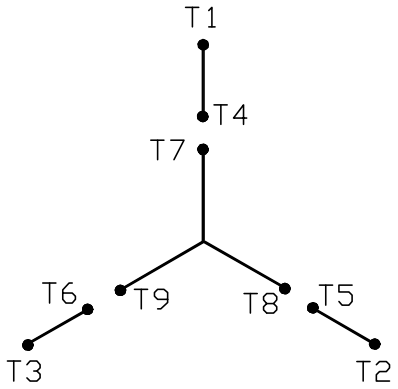
BALDOR

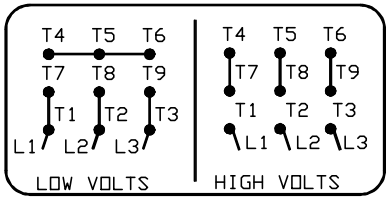
DIM SHT 210TY SUBMERSIBLE WITH CABLE CONNECTORS

619738-003

416820-001

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD Y CONNECTED





(N. P. 1575-A)

416820-001

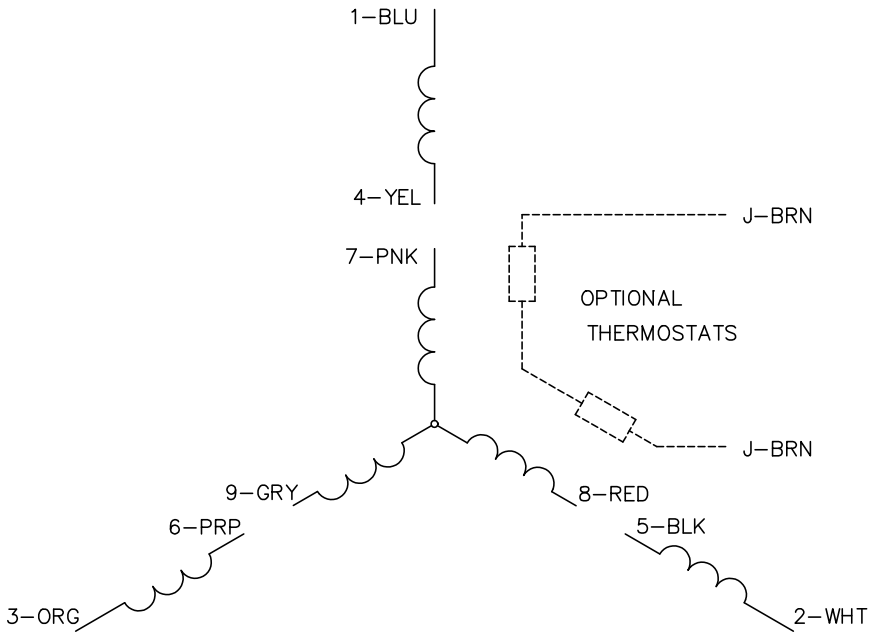
REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\659	REVISED: 10:33:07 12/21/2016	BY: MGHMTT
MTL: –		

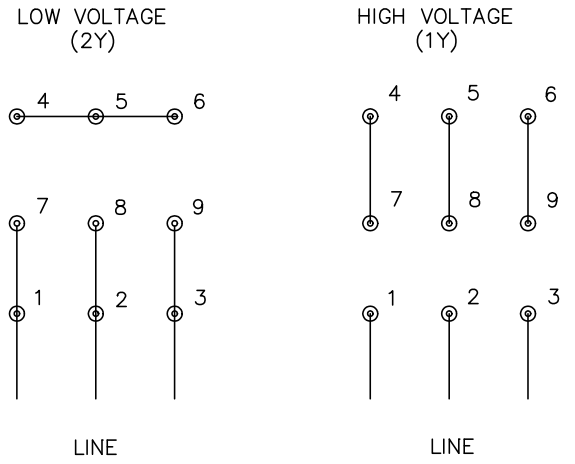
BALDOR

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.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS