

ABB BALDOR RELIANCE III

Customer information packet

SUM70756

7.5HP, 1150RPM, 3PH, 60HZ, 210TY, XPNV, V1

Class - CLI GP C,D

Division - Not Applicable

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 CULUS
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	G
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	6
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.437 IN

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85997
Layout	619738-003
Eff. date	12-17-2025
CD Diagram	416820-001
Poles	///
Leads	
Proprietary	False
Created date	08-06-2021

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

Nameplate

000613007RT									
CAT.NO.	SUM70756			SPEC NO.	S21-CWS0-0006				
SER.NO.					FRAME SIZE	210TY			
	HP	RPM	VOLTS	AMPS	HZ	S.F.			
	7.5	1150	230/460		20.8/10.4	6-60	1.00		
	7.5	1150	230/460		20.8/10.4	60	1.15		
CONSTANT HP RPM		@		HZ	CODE	G			
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 ;SUB. IN SEWAGE /									
WATER ONLY									

000613007MS

CAT.NO.	SUM70756		SPEC NO.		S21-CWS0-0006				
	SER.NO.			FRAME SIZE		210TY			
	HP	RPM	VOLTS	AMPS	HZ	S.F.			
	7.5	1150	230/460		20.8/10.4	6-60	1.00		
	7.5	1150	230/460		20.8/10.4	60	1.15		
	CONSTANT HP RPM		@	HZ	CODE	G			
	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 ;SUB. IN SEWAGE /									
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	

AC induction motor performance data

Record #85997 - Typical performance - not guaranteed values

Winding	07WGA0019
Type	0758M
Enclosure	PART

Nameplate data

Rated Output	7.5		
Volts	230/460		
Full Load Amps	20.8/10.4		
R.P.M.	1150		
Hz	60	Phase	3
KVA Code	G		
S.F.	1.15		
NEMA Nom. Eff.	89.5	Power Factor	75
Duty	15 MIN		
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	34 LB-FT
Start Configuration	direct on line
Breakdown Torque	84.38 LB-FT
Pull-up Torque	61.39 LB-FT
Locked-rotor Torque	74.5 LB-FT
Starting Current	59.05 A
No-load Current	4.22
Line-line Res. @ 25°C	1.26 Ω
Temp. Rise @ Rated Load	16°C
Temp. Rise @ S.F. Load	21°C
Locked-rotor Power Factor	21
Rotor inertia	1.44 lb-ft ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

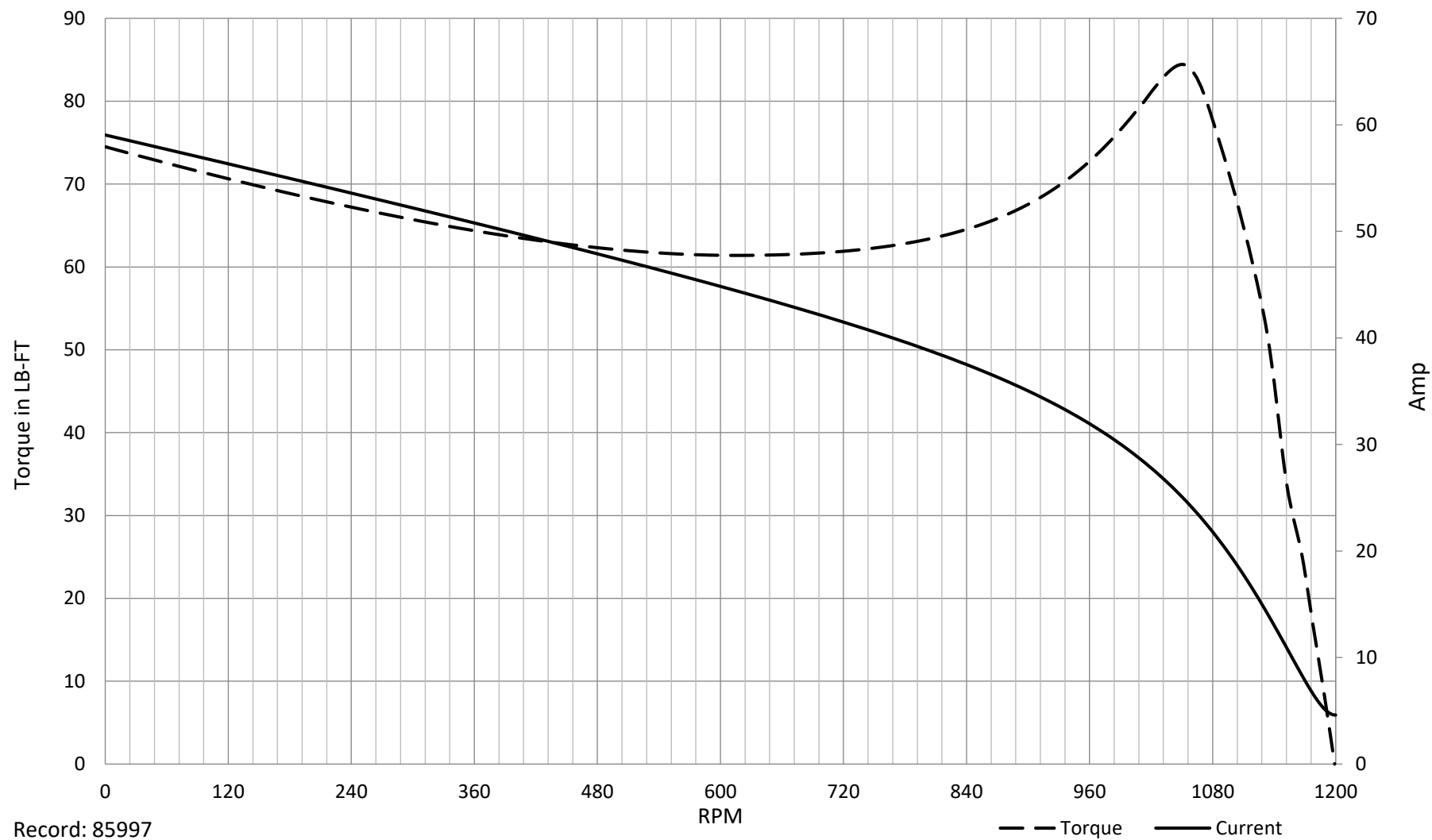
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	41	63	72	75	76	74	76
Efficiency	0	90.9	91.6	90.6	89.5	86.9	83.5	88.1
Speed	1199	1189	1178	1167	1152	1135	1110	1142
Line amperes	4.22	4.73	6.13	8.11	10.41	13.2	17	12.1

SPEED TORQUE / SPEED CURRENT CURVES

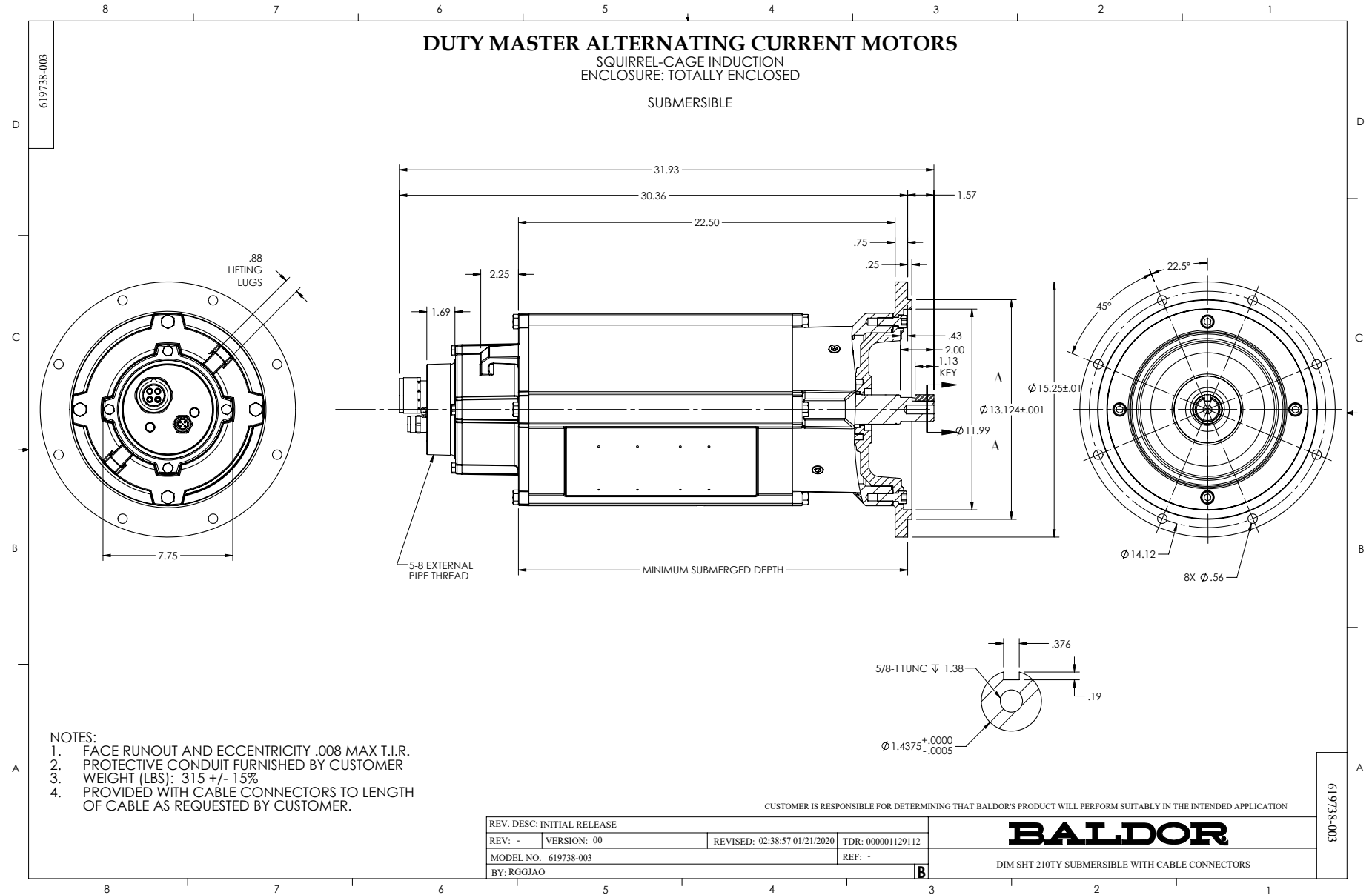
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07WGA0019

7.5HP 460V 60HZ

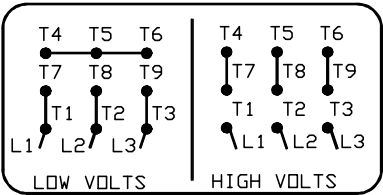
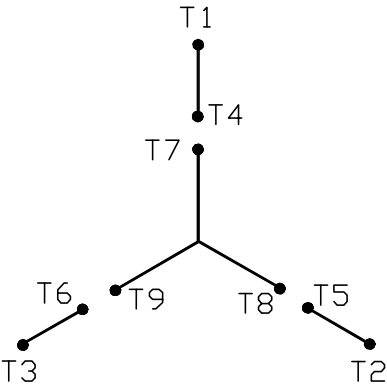


Record: 85997



416820-001

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD Y CONNECTED



(N. P. 1575-A)

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
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CONN DIAG - STANDARD 9 LEAD, Y CONNECTED
SH 1 of 1

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