



Customer information packet

SUM71004

10HP, 1765RPM, 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
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	NONE
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

Part detail

Revision	C
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	08-09-2021

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

Nameplate

000613007MS										
CAT.NO.	SUM71004		SPEC NO.		S21-CWS0-0008					
SER.NO.				FRAME SIZE		210TY				
CONSTANT HP RPM	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	
			@		HZ	CODE	H			
	TYPE	P	INSUL.CLASS		F	TORQUE		10:1_VT		DESIGN
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 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	

000613007MS

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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 = 230 *15											
MIN IN AIR ;SUB. IN WATER											
ONLY											

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-ft ²

Load Characteristics 460 V, 60 Hz, 10 HP

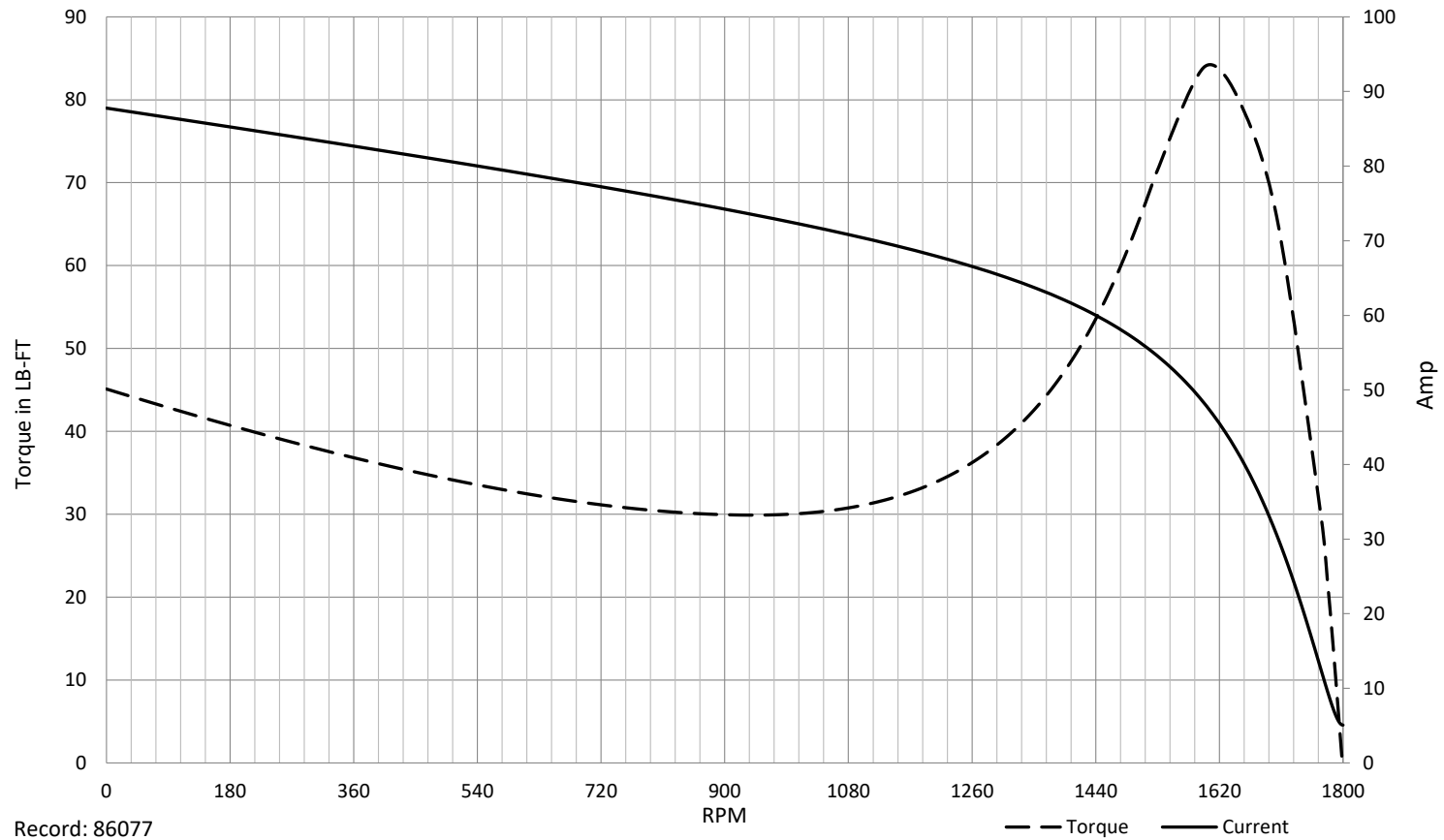
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	6	47	68	78	82	84	84	83
Efficiency	0	88.1	90.8	91.9	90.9	90	88.6	90.4
Speed	1799	1792	1785	1777	1768	1758	1747	1762
Line amperes	4.92	5.73	7.53	9.86	12.49	15.44	18.79	14.3

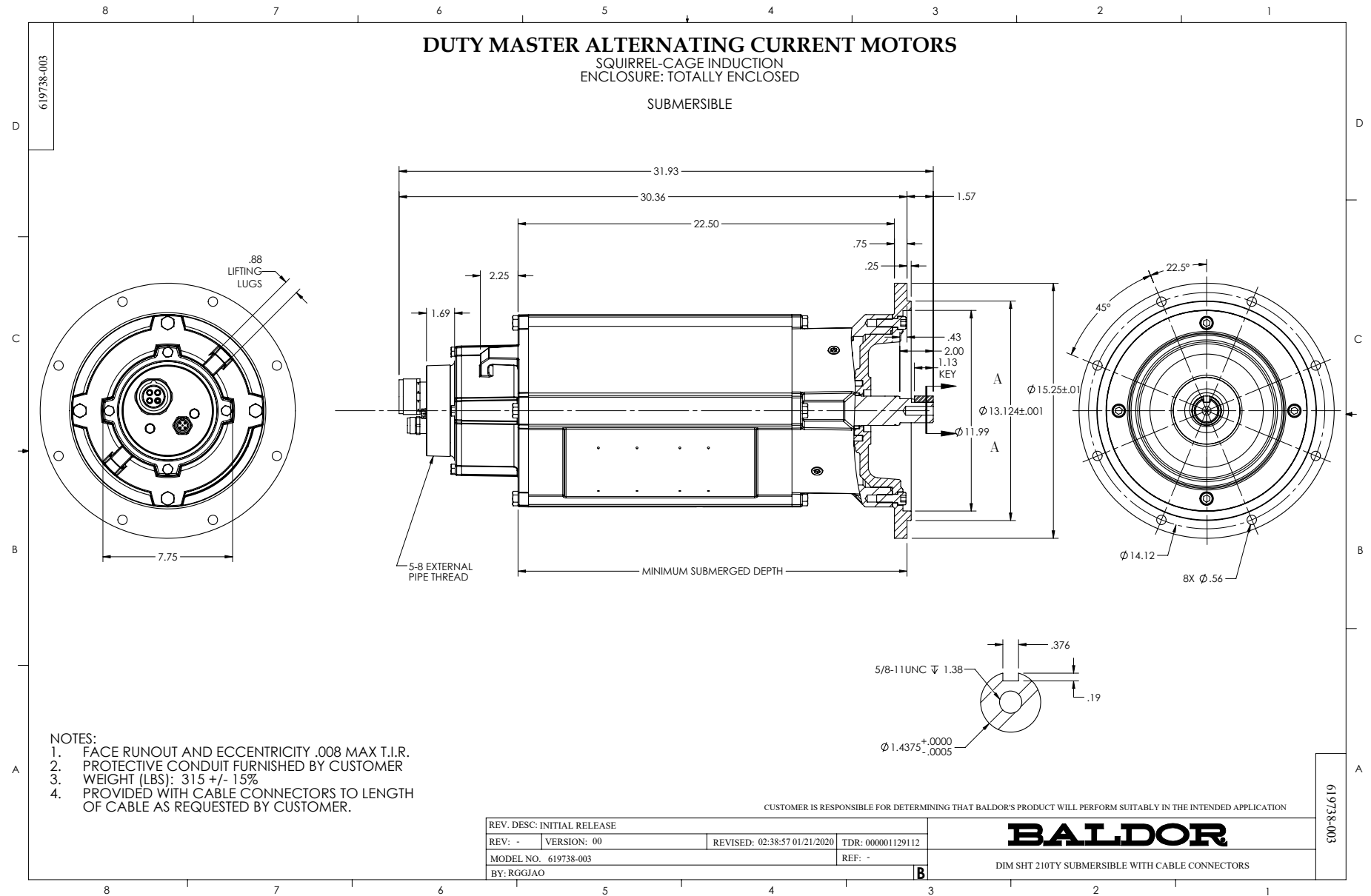
SPEED TORQUE / SPEED CURRENT CURVES

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07WGA0017

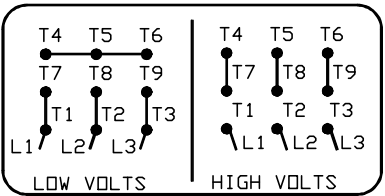
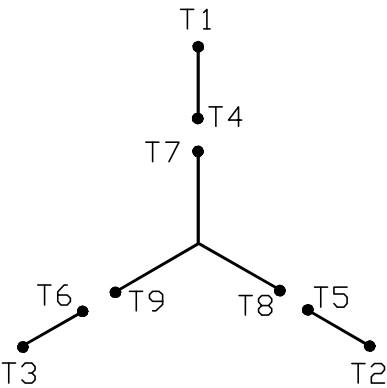
10HP 460V 60HZ





416820-001

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD Y CONNECTED



(N. P. 1575-A)

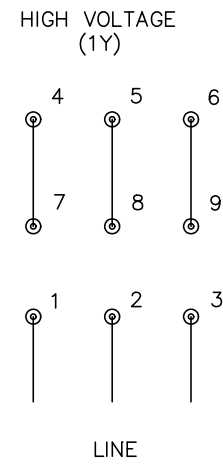
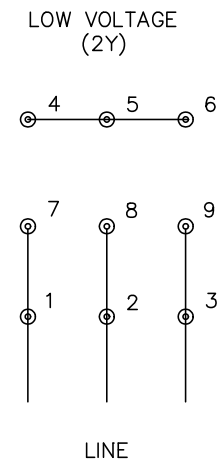
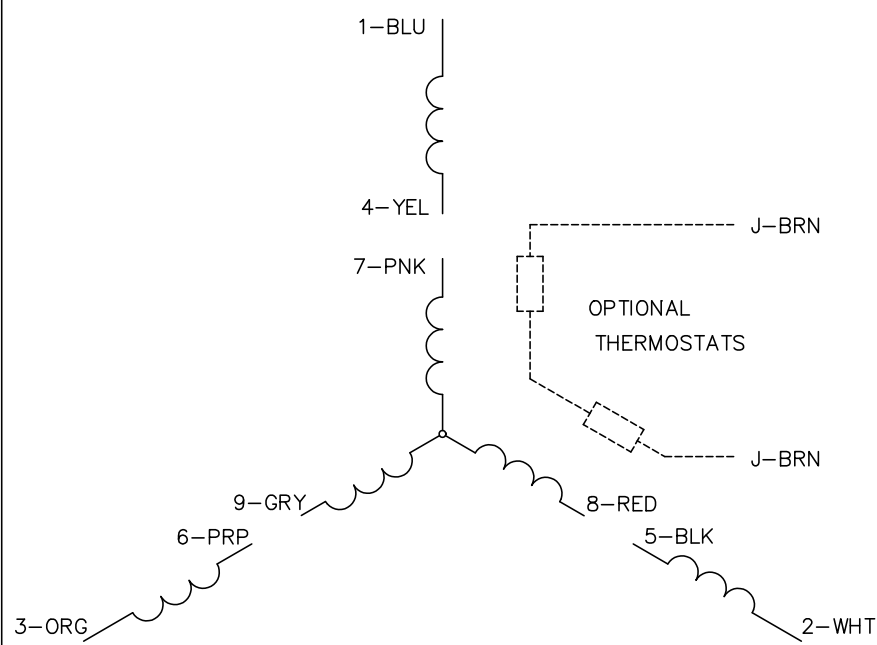
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CONN DIAG — STANDARD 9 LEAD, Y CONNECTED
SH 1 of 1

416820-001

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- 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			
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900000		FILE: AAA00005140	MDL: -
		MTL: -	

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3PH, DV, 9 LEADS

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