



Customer information packet

SUM70504-4

5HP, 1755RPM, 3PH, 60HZ, 180TY, XPNV, V1

Class - CLI GP C,D

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	180TY
Frame Material	Cast 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	CULUS CCSA US
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
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	Inverter Ready
IP Rating	NONE
KVA Code	J
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	1.00
Shaft Diameter	1.250 IN
Shaft Rotation	Reversible

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	86086
Layout	619738-001
Eff. date	02-18-2025
CD Diagram	
Poles	///
Leads	
Proprietary	False
Created date	10-25-2021

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

Nameplate

000613007MS											
CAT.NO.	SUM70504-4		SPEC NO.		S18-CWS0-0009						
SER.NO.				FRAME SIZE		180TY					
CONSTANT HP RPM	HP	RPM	VOLTS		AMPS		HZ		S.F.		
	5	1755	230/460		13.8/6.9		6-60		1.00		
	5	1755	230/460		13.8/6.9		60		1.15		
			@		HZ	CODE	J				
	TYPE	P	INSUL.CLASS		F	TORQUE		10:1_VT		DESIGN	B
D.E. BRG.	50BC02JPP30A		ENCL		TENV		DUTY	15 MIN		PH	3
O.D.E. BRG.	25BC02JPG30A		MOTOR WEIGHT						AMB	40	
FINAL CONN VOLTAGE = 460 *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	

000613007MS

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WATER ONLY									

AC induction motor performance data

Record #86086 - Typical performance - not guaranteed values

Winding	06WGA0017
Type	0640M
Enclosure	TENV

Nameplate data

Rated Output	5
Volts	230/460
Full Load Amps	13.8/6.9
R.P.M.	1755
Hz	60
Phase	3
KVA Code	J
S.F.	1.15
NEMA Nom. Eff.	89.5
Power Factor	76
Duty	15 MIN
S.F. Amps	

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	14.92 LB-FT
Start Configuration	direct on line
Breakdown Torque	53.26 LB-FT
Pull-up Torque	26.84 LB-FT
Locked-rotor Torque	31.7 LB-FT
Starting Current	47.59 A
No-load Current	3.62
Line-line Res. @ 25°C	2.57 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	69°C
Locked-rotor Power Factor	41.4
Rotor inertia	0.372 lb-ft ²

Load Characteristics 460 V, 60 Hz, 5 HP

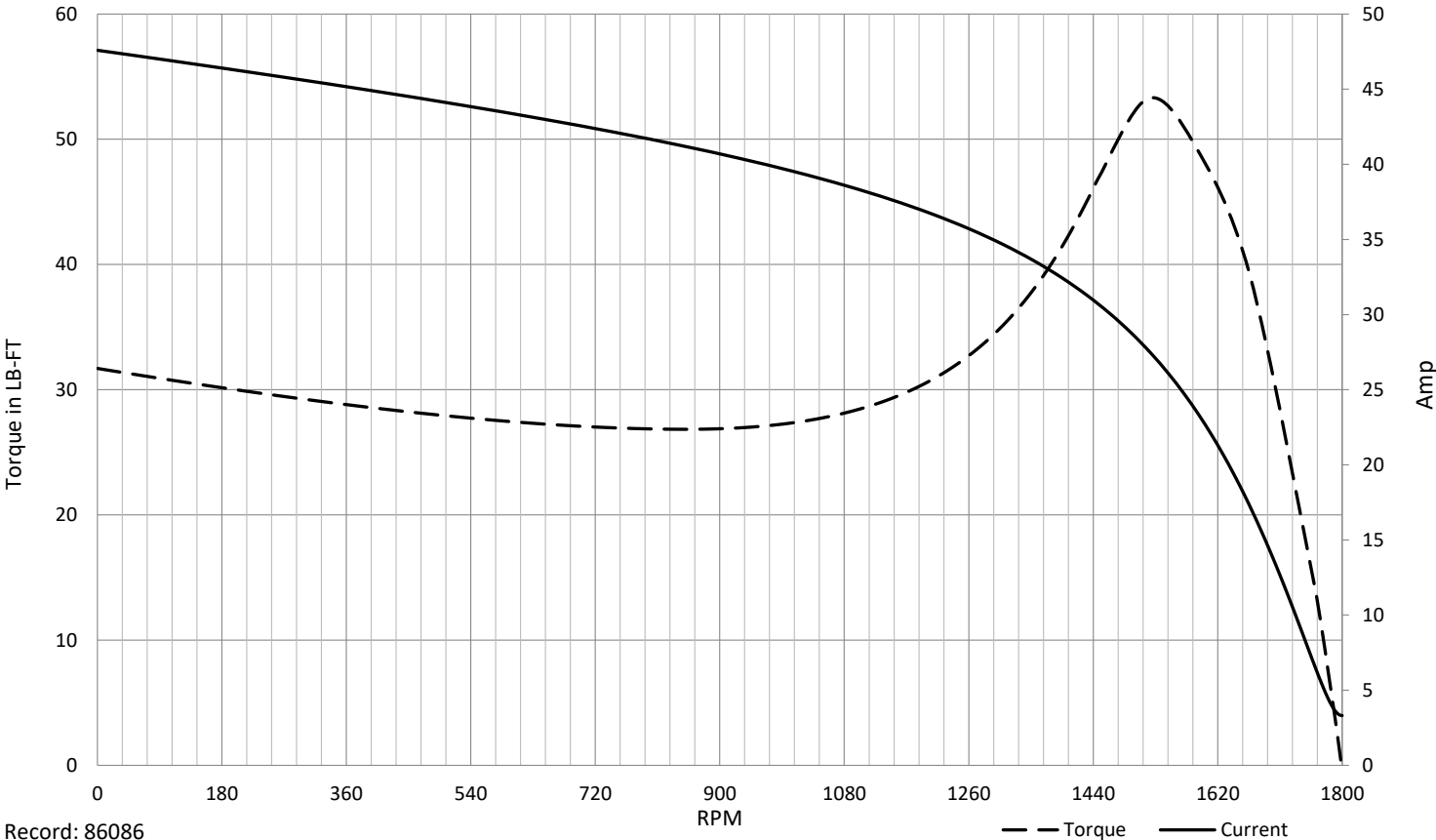
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	36	57	68	76	80	82	78
Efficiency	0	81	88.6	90.2	89.8	88.6	84.1	89.1
Speed	1799	1790	1780	1770	1758	1745	1729	1750
Line amperes	3.62	3.96	4.65	5.68	6.87	8.26	10.11	7.7

SPEED TORQUE / SPEED CURRENT CURVES



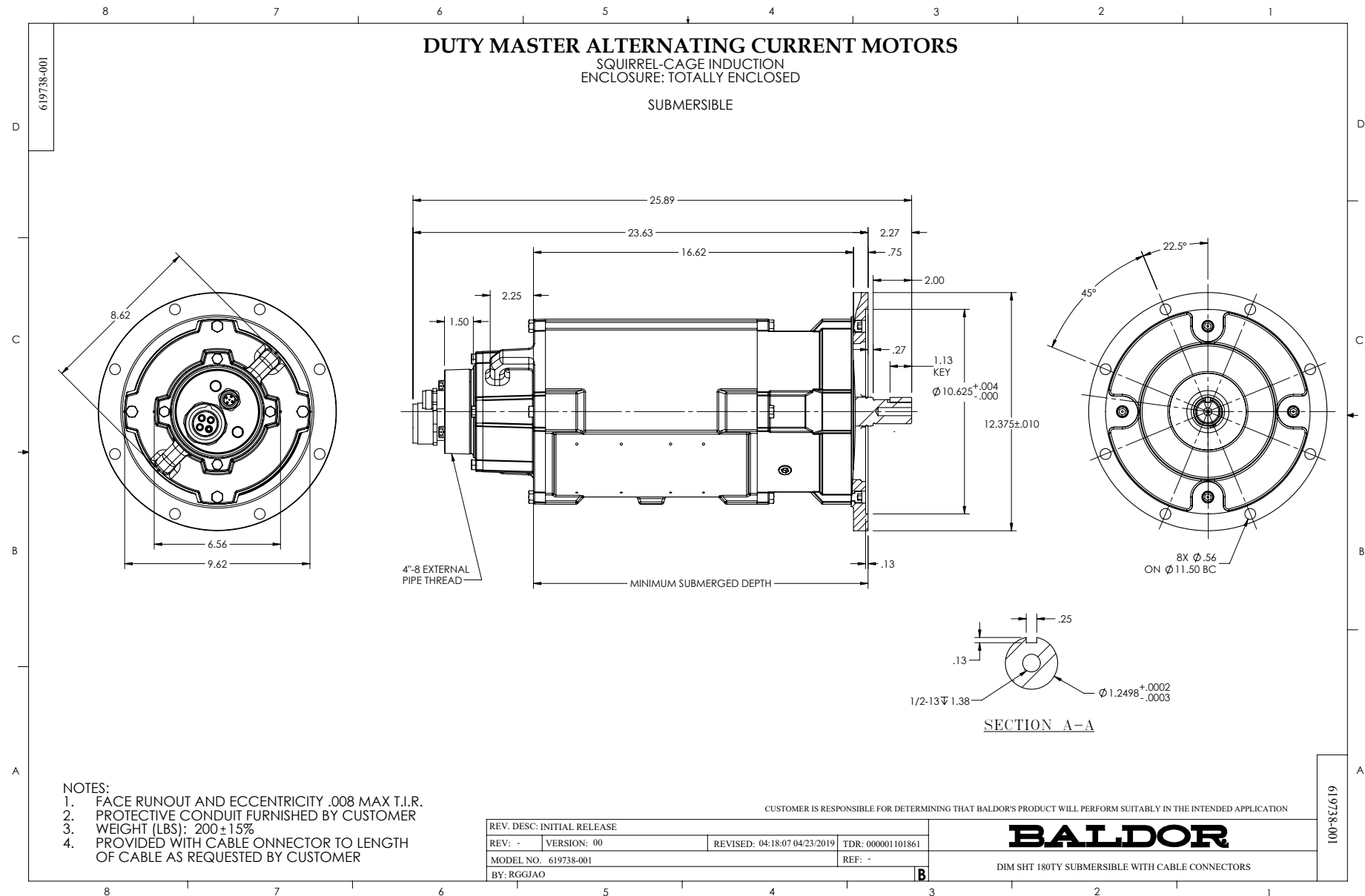
06WGA0017

5HP 460V 60HZ

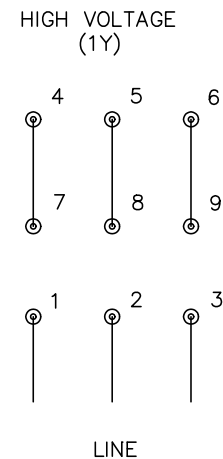


Record: 86086

— — Torque — Current



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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005