

ABB BALDOR RELIANCE III

Customer information packet

SUM70106SM

1HP, 1150RPM, 3PH, 60HZ, 180TY, XPNV, V1

Class - CLI GP C,D

Division - Not Applicable

Specifications

Enclosure	XPNV
Frame	180TY
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	25 FOOT
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	N
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	0.875 IN
Shaft Rotation	Reversible

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	93692
Layout	619738-002
Eff. date	10-29-2025
CD Diagram	
Poles	///
Leads	
Proprietary	False
Created date	07-27-2022

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

Nameplate

000613007MN												
CAT NO	SUM70106SM		SPEC NO.		S18-CWS0-0076							
HP	1	AMPS	4/2		VOLTS		230/460		DESIGN		B	
FRAME SIZE	180TY		RPM	1150		HZ	60	AMB	40	SF	1.15	
D.E. BRG.	50BC02JPP30A			PH	3	DUTY		CONT		INSUL	F	
O.D.E. BRG.	25BC02JPG30A			TYPE	P	ENCL		TENV		CODE	N	
SER.NO.				POWER FACTOR				NEMA-NOM-EFF				
				MAX CORR KVAR				GUARANTEED EFFICIENCY				
				NEMA NOM/CSA QUOTED EFF @							100% LOAD	
				MOTOR WEIGHT				LBS.				
				FINAL CONN VOLTAGE = 230								

000613007RC			
CLASS I GROUP	C D X	NO.	
CLASS II GROUP	X X X		
OPERATING TEMP CODE	T3C		

000613007MR												
CAT NO	SUM70106SM		SPEC NO.		S18-CWS0-0076							
HP	1	AMPS	4/2		VOLTS		230/460		DESIGN		B	
FRAME SIZE	180TY		RPM	1150		HZ	60	AMB	40	SF	1.15	
D.E. BRG.	50BC02JPP30A			PH	3	DUTY		CONT		INSUL	F	
O.D.E. BRG.	25BC02JPG30A			TYPE	P	ENCL		TENV		CODE	N	
			POWER FACTOR					NEMA-NOM-EFF				
			MAX CORR KVAR					GUARANTEED EFFICIENCY				
			NEMA NOM/CSA QUOTED EFF @								100% LOAD	
SER.NO.					MOTOR WEIGHT				LBS.			
	FINAL CONN VOLTAGE = 230											

Record #93692 - Typical performance - not guaranteed values

Winding	06WGA0033
Type	0624M
Enclosure	TENV

Nameplate data

Rated Output	1		
Volts	230/460		
Full Load Amps	4/2		
R.P.M.	1150		
Hz	60	Phase	3
KVA Code	N		
S.F.	1.15		
NEMA Nom. Eff.	82.5	Power Factor	55
Duty	15 MIN		
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	4.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	21.4 LB-FT
Pull-up Torque	11.6 LB-FT
Locked-rotor Torque	14.6 LB-FT
Starting Current	14.8 A
No-load Current	1.58
Line-line Res. @ 25°C	9.32 Ω
Temp. Rise @ Rated Load	21°C
Temp. Rise @ S.F. Load	23°C
Locked-rotor Power Factor	33.7
Rotor inertia	0.225 lb-ft ²

Load Characteristics 460 V, 60 Hz, 1 HP

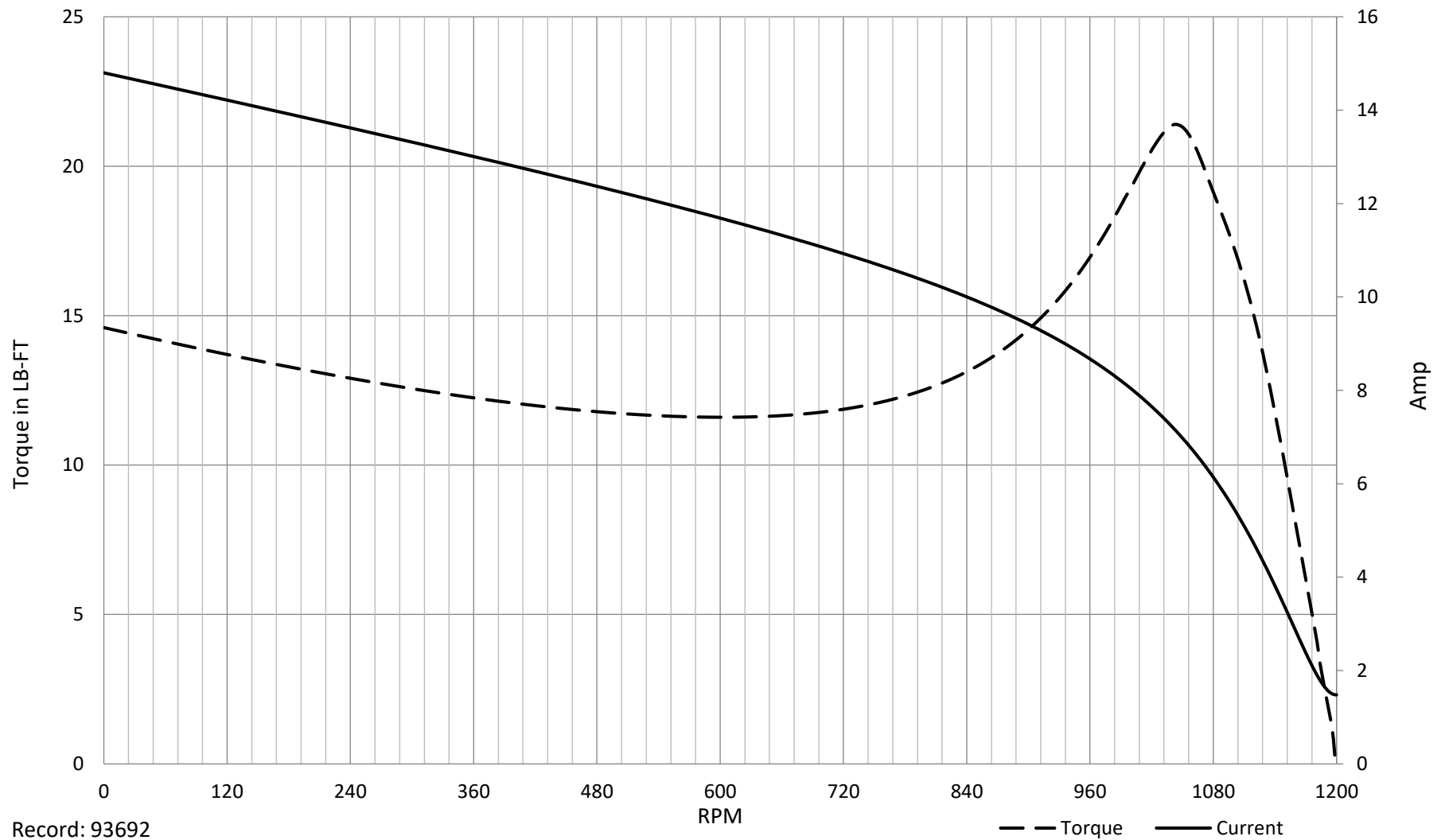
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	7	22	35	46	55	61	67	59
Efficiency	0	67.6	79.3	83.1	85.1	85.5	85.1	85.3
Speed	1199	1196	1190	1184	1179	1172	1165	1175
Line amperes	1.58	1.61	1.71	1.86	2.02	2.24	2.49	2.15

SPEED TORQUE / SPEED CURRENT CURVES

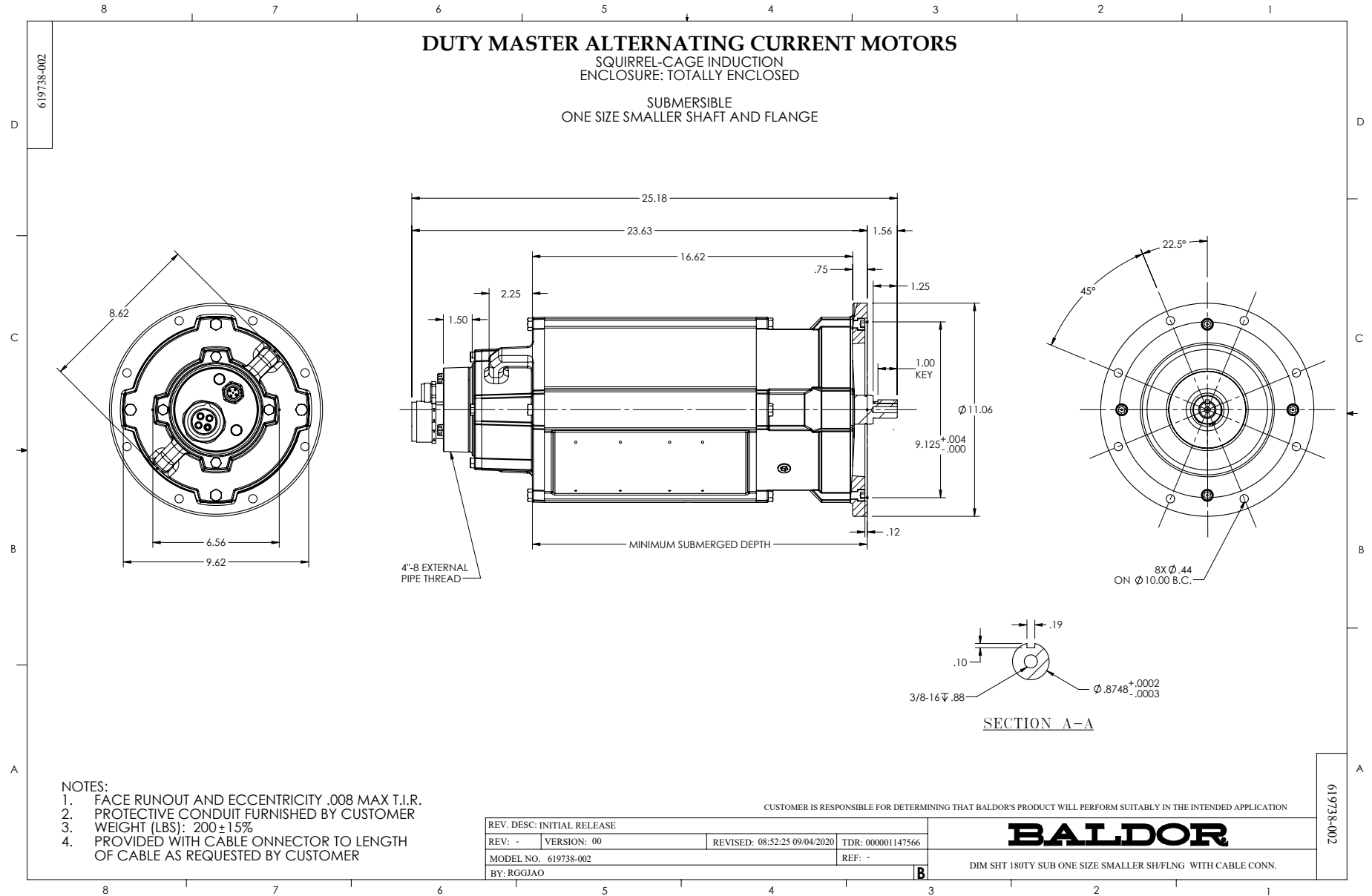


06WGA0033

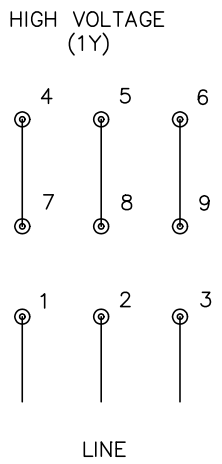
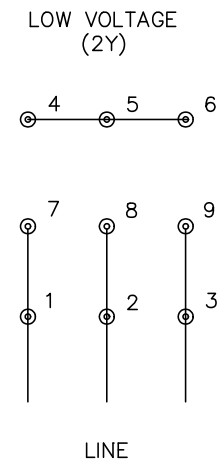
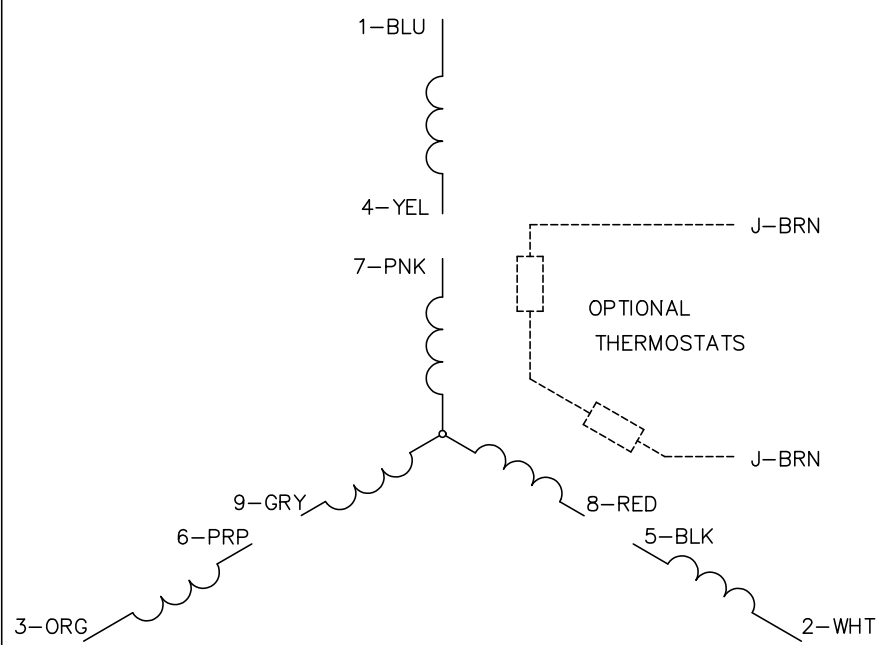
1HP 460V 60HZ



Record: 93692



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