

**BALDOR® • RELIANCE®**

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# Customer information packet

## SUM70756-4

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
Motor Letter Type	Three Phase
Phase	3
XP Class and Group	CLI GP C,D
XP Division	Not Applicable
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	NONE
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
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed

## Part detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85997
Layout	619738-003
Eff. date	09-15-2021
CD Diagram	416820-001
Poles	///
Leads	
Proprietary	False
Created date	08-09-2021

<b>Starting Method</b>	Direct on line
<b>Thermal Device - Winding</b>	Normally Closed Thermostat
<b>XP Temp Code</b>	T3C

**Nameplate**

**000613007MN**

<b>CAT NO</b>	SUM70756-4	<b>SPEC NO.</b>	S21-CWS0-0007						
<b>HP</b>	7.5	<b>AMPS</b>	20.8/10.4	<b>VOLTS</b>	230/460	<b>DESIGN</b>	B		
<b>FRAME SIZE</b>	210TY	<b>RPM</b>	1150	<b>HZ</b>	60	<b>AMB</b>	40	<b>SF</b>	1.15
<b>D.E. BRG.</b>	60BC02JPP30A	<b>PH</b>	3	<b>DUTY</b>	15MIN	<b>INSUL</b>	F		
<b>O.D.E. BRG.</b>	30BC02JPG30A	<b>TYPE</b>	P	<b>ENCL</b>	TENV	<b>CODE</b>	G		
		<b>POWER FACTOR</b>		<b>NEMA-NOM-EFF</b>					
		<b>MAX CORR KVAR</b>		<b>GUARANTEED EFFICIENCY</b>					
		<b>NEMA NOM/CSA QUOTED EFF @</b>		<b>100% LOAD</b>					
<b>SER.NO.</b>		<b>MOTOR WEIGHT</b>	350	<b>LBS.</b>					
	FINAL CONN VOLTAGE = 460 ;SUB.								
	IN WATER ONLY								

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**000613007RC**

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<b>CLASS I GROUP</b>	C D X	<b>NO.</b>	
<b>CLASS II GROUP</b>	X X X		
<b>OPERATING TEMP CODE</b>	T3C		

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**000613007MR**

<b>CAT NO</b>	SUM70756-4	<b>SPEC NO.</b>	S21-CWS0-0007						
<b>HP</b>	7.5	<b>AMPS</b>	20.8/10.4	<b>VOLTS</b>	230/460	<b>DESIGN</b>	B		
<b>FRAME SIZE</b>	210TY	<b>RPM</b>	1150	<b>HZ</b>	60	<b>AMB</b>	40	<b>SF</b>	1.15
<b>D.E. BRG.</b>	60BC02JPP30A	<b>PH</b>	3	<b>DUTY</b>	15MIN	<b>INSUL</b>	F		
<b>O.D.E. BRG.</b>	30BC02JPG30A	<b>TYPE</b>	P	<b>ENCL</b>	TENV	<b>CODE</b>	G		
		<b>POWER FACTOR</b>		<b>NEMA-NOM-EFF</b>					
		<b>MAX CORR KVAR</b>		<b>GUARANTEED EFFICIENCY</b>					
		<b>NEMA NOM/CSA QUOTED EFF @</b>			<b>100% LOAD</b>				
<b>SER.NO.</b>		<b>MOTOR WEIGHT</b>	350	<b>LBS.</b>					
	FINAL CONN VOLTAGE = 460 ;SUB.								
	IN WATER ONLY								

**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	80°C
Temp. Rise @ S.F. Load	107°C
Locked-rotor Power Factor	21
Rotor inertia	1.44 lb-ft²

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

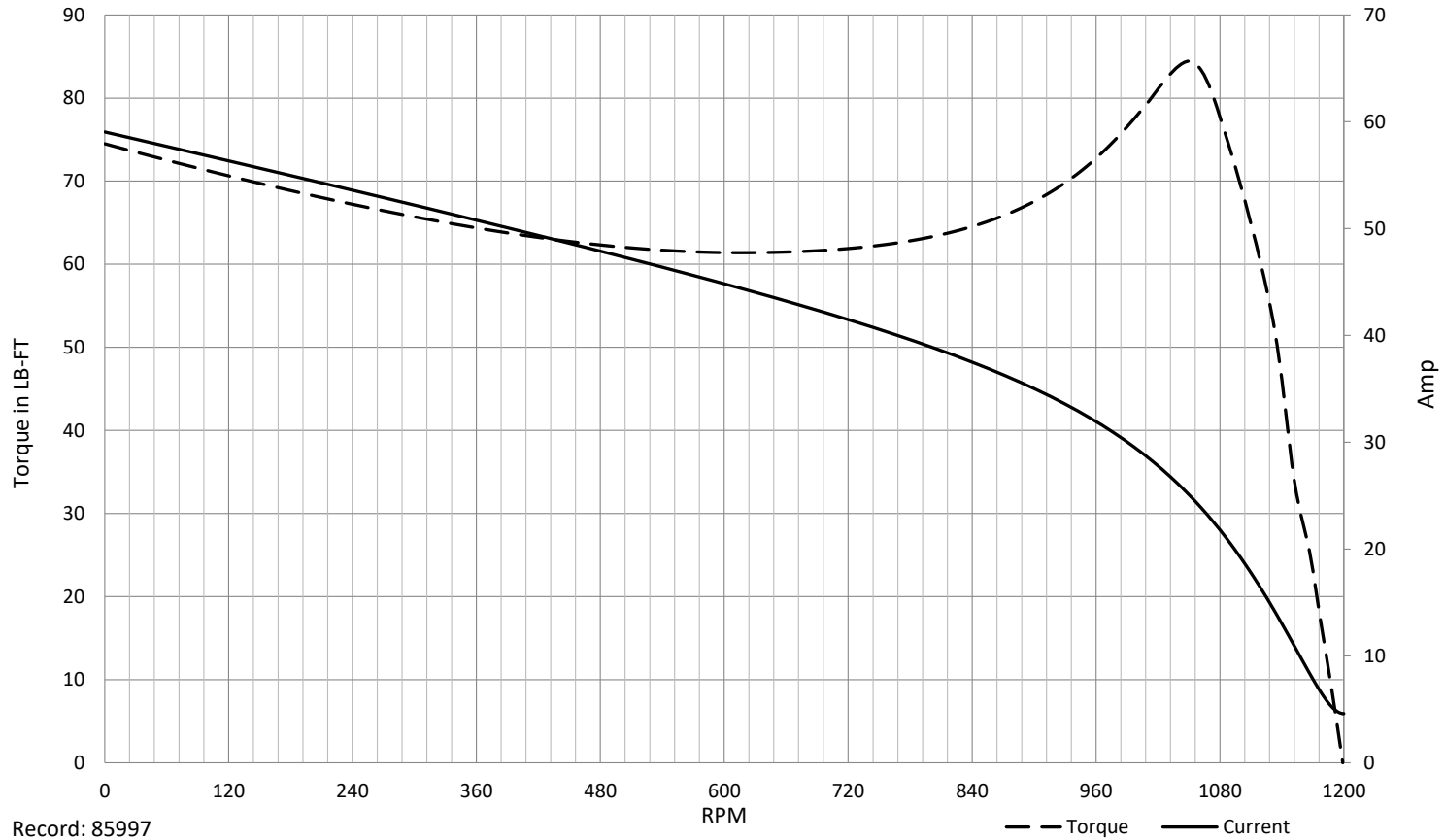
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	41	63	72	75	76	74	76
Efficiency	0	90.9	91.6	90.6	89.5	86.9	83.5	88.1
Speed	1199	1189	1178	1167	1152	1135	1110	1142
Line amperes	4.22	4.73	6.13	8.11	10.41	13.2	17	12.1

SPEED TORQUE / SPEED CURRENT CURVES



07WGA0019

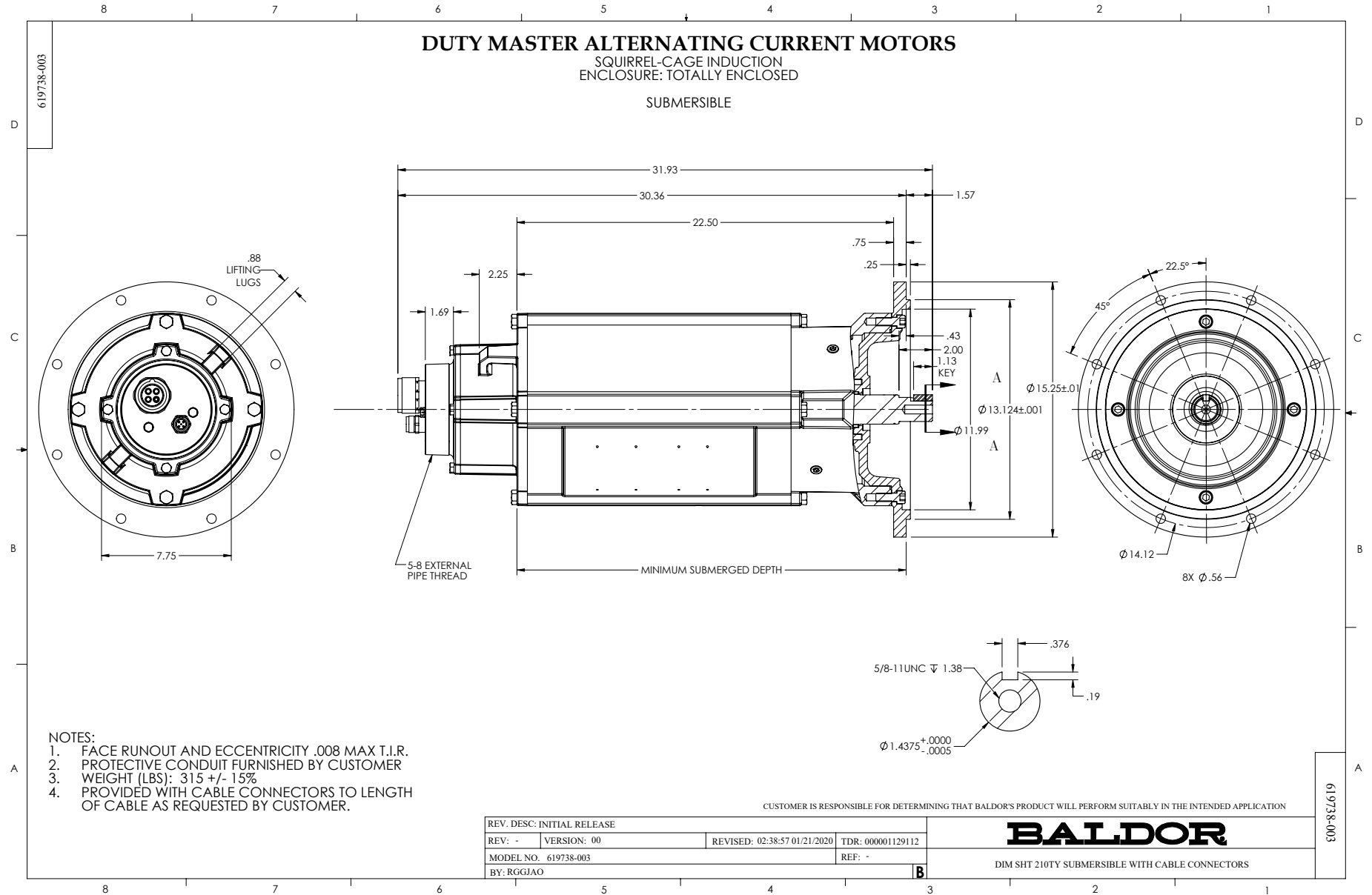
7.5HP 460V 60HZ



Record: 85997

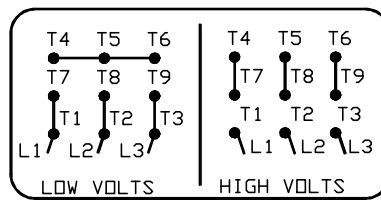
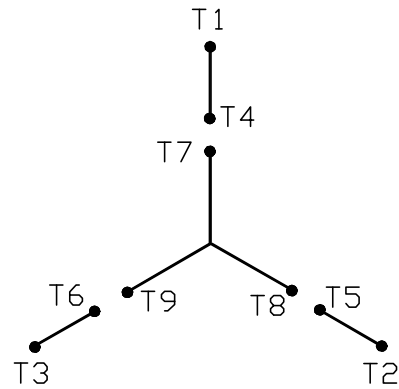
--- Torque    — Current





416820-001

A-C MOTOR  
 CONNECTION DIAGRAM  
 STANDARD 9 LEAD Y CONNECTED



(N. P. 1575-A)

416820-001

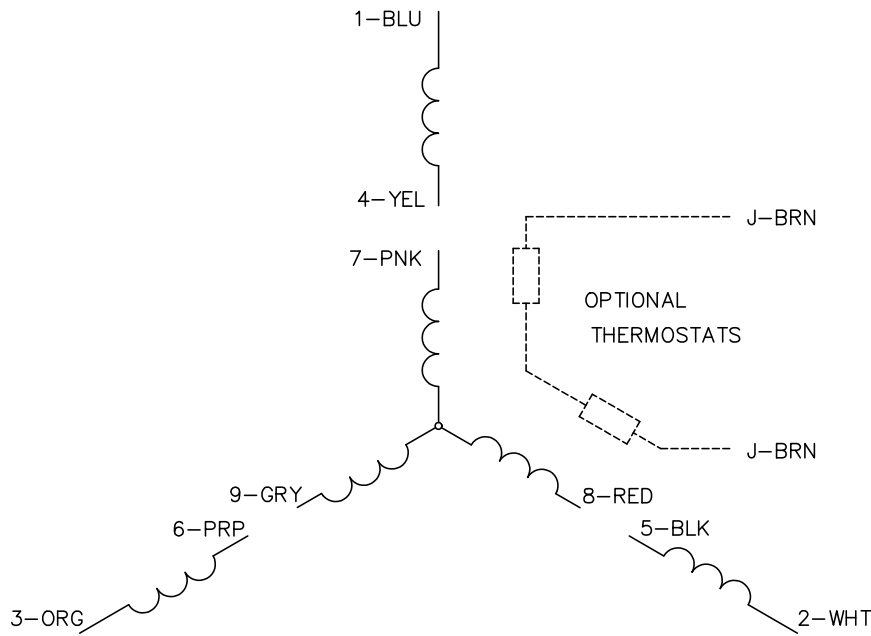
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FILE: \MGA\00000\659	REVISED: 10: 33: 07 12/21/2016	BY: MGHMTT
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CONN DIAG - STANDARD 9 LEAD, Y CONNECTED

SH 1 of 1

CD0005

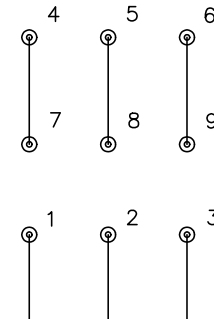


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

**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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
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		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS