

ABB BALDOR RELIANCE III

Customer information packet

SUM71006

10HP, 1140RPM, 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	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
Shaft Rotation	Reversible

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85964
Layout	619738-003
Eff. date	12-10-2024
CD Diagram	416820-001
Poles	///
Leads	
Proprietary	False
Created date	08-10-2021

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

Nameplate

000613007MS										
CAT.NO.	SUM71006			SPEC NO.	S21-CWS0-0011					
SER.NO.					FRAME SIZE	210TY				
CONSTANT HP RPM	HP	RPM	VOLTS		AMPS		HZ	S.F.		
	10	1140	230/460		28/14		6-60	1.00		
	10	1140	230/460		28/14		60	1.15		
	@			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 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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	FINAL CONN VOLTAGE = 230 *15							
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	ONLY							

AC induction motor performance data

Record #85964 - Typical performance - not guaranteed values

Winding	07WGA0020
Type	0754M
Enclosure	PART

Nameplate data

Rated Output	10		
Volts	230/460		
Full Load Amps	28/14		
R.P.M.	1140		
Hz	60	Phase	3
KVA Code	G		
S.F.	1.15		
NEMA Nom. Eff.	88.5	Power Factor	72
Duty	15 MIN		
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	45.75 LB-FT
Start Configuration	direct on line
Breakdown Torque	100 LB-FT
Pull-up Torque	76.65 LB-FT
Locked-rotor Torque	93.02 LB-FT
Starting Current	71.29 A
No-load Current	5.64
Line-line Res. @ 25°C	1.12 Ω
Temp. Rise @ Rated Load	80°C
Temp. Rise @ S.F. Load	106°C
Locked-rotor Power Factor	22.1
Rotor inertia	1.34 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

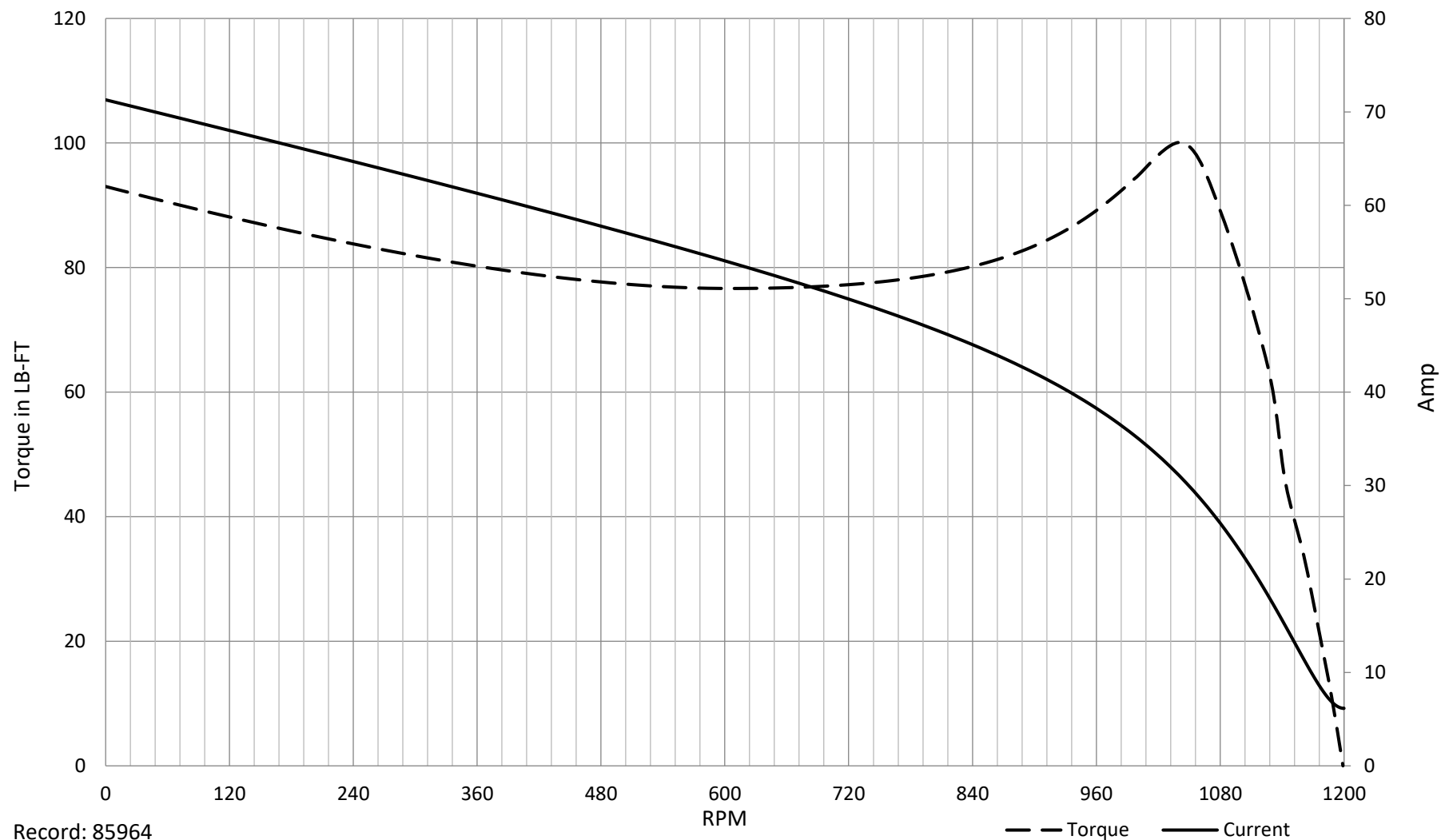
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	41	62	71	74	74	67	74
Efficiency	0	87	90.3	90.2	89	86.7	80.6	87.6
Speed	1199	1188	1175	1161	1143	1120	1065	1129
Line amperes	5.64	6.32	8.23	10.98	14.28	18.53	26.83	16.8

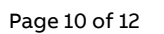
SPEED TORQUE / SPEED CURRENT CURVES



07WGA0020

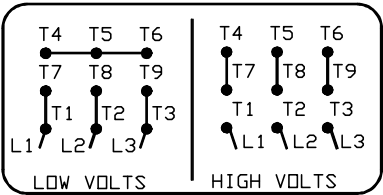
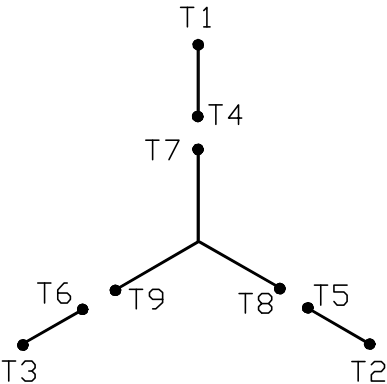
10HP 460V 60HZ





416820-001

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD Y CONNECTED



(N. P. 1575-A)

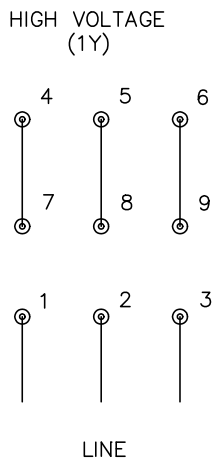
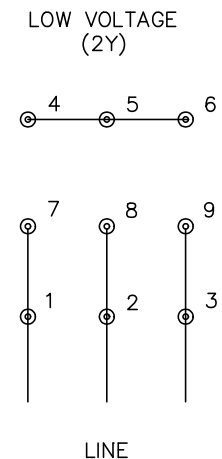
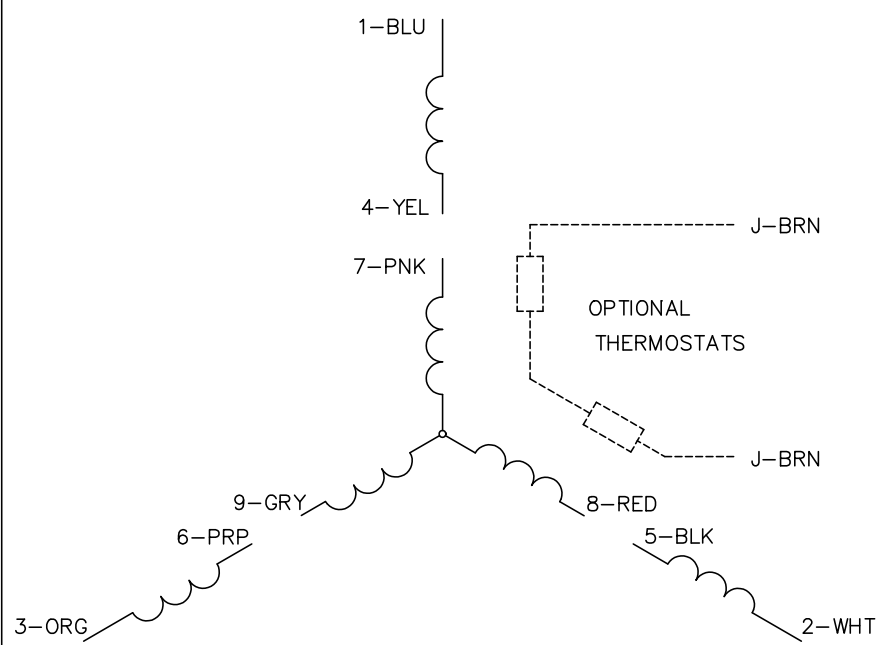
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MTL: —		

BALDOR

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

416820-001

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			
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900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

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