

ABB BALDOR RELIANCE III

Customer information packet

JMXM21122T

10//7.5HP, 3500//2900RPM, 3PH, 60//50HZ, 213

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	213JM
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ 7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	24.000 A @ 230.0 V 22.800 A @ 190.0 V 12.000 A @ 460.0 V 11.400 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	A
Type	AC
Mech. spec.	37T528
Base	
Status	PRD/A
Elec. spec.	37WGR480
Layout	37LYT528
Eff. date	10-16-2023
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	03-08-2021

Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T2D
Heater Indicator	No Heater
High Voltage Full Load Amps	11.4 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3756M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.20 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2900 rpm 3500 rpm

Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV													
NO.							CC	010A					
S/N							TEMP CODE		T2D				
SPEC.	37T528R480G1						INV.TYPE		PWM				
CAT.NO.	JMXM21122T						C HP FR		60	C HP TO		90	
HP	10//7.5						CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60	
AMPS	24/12//22.8/11.4				MAG CUR		9/4.5						
RPM	3500//2900				MX RPM		5400						
HZ	60//50	PH	3	CL	F	NOM.EFF.		90.2					
SER.F.	1.00	DES	A	SL HZ		1.7	WK2	0.51					
FRAME	213JM	RATING		40C AMB-CONT									
	55C AMB @ 1.0 SF												
	1.15 SF SINEWAVE						NEMA MG-1 PT 5,IP54						

AC Induction Motor Performance Data

Record # 85492

Typical performance - not guaranteed values

Winding: 37WGR480-R002				Type: 3756M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10//7.5		Full Load Torque		15.01 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		24/12//22.8/11.4		Breakdown Torque		101 LB-FT	
R.P.M.		3500//2900		Pull-up Torque		32.98 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		M	
Service Factor (S.F.)		1		No-load Current		4.51 A	
NEMA Nom. Eff.		90.2		Power Factor		86	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C	
				Locked-rotor Power Factor		29.4	
				Rotor inertia		0.51 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	51	71	81	86	89	90
Efficiency	84	89.7	91.2	90.6	89.9	88.4
Speed	3579	3559	3538	3515	3488	3460
Line amperes	5.52	7.42	9.67	12.07	14.62	17.73

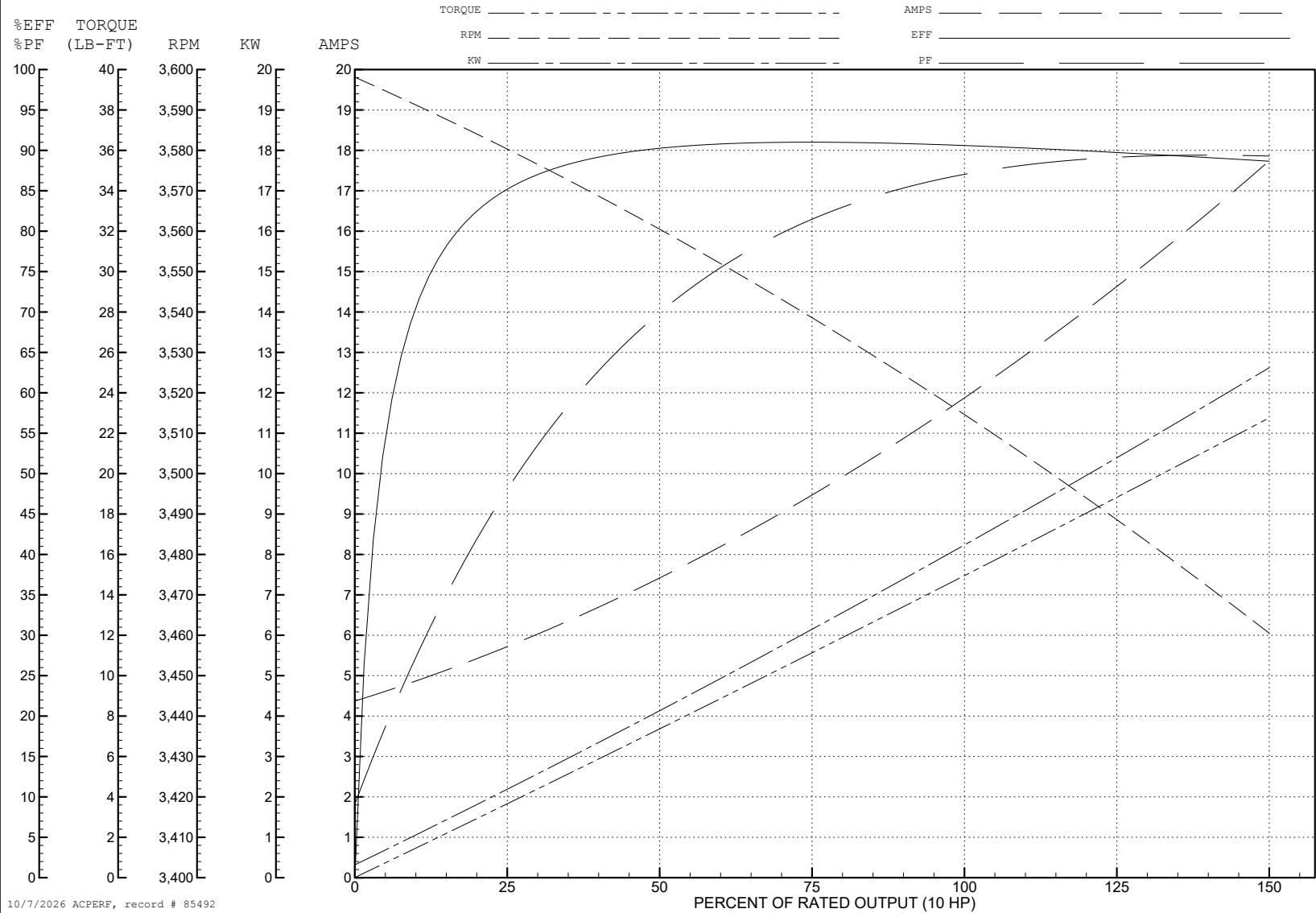
ABB Motors and Mechanical Inc.

WINDING # 37WGR480

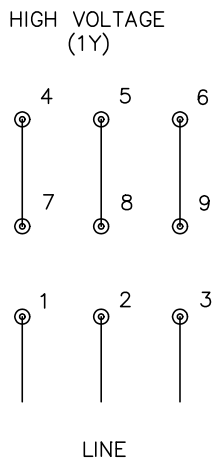
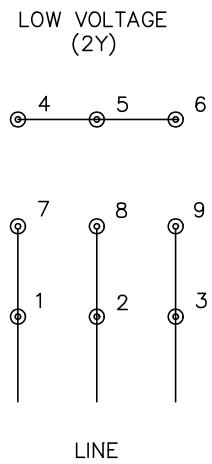
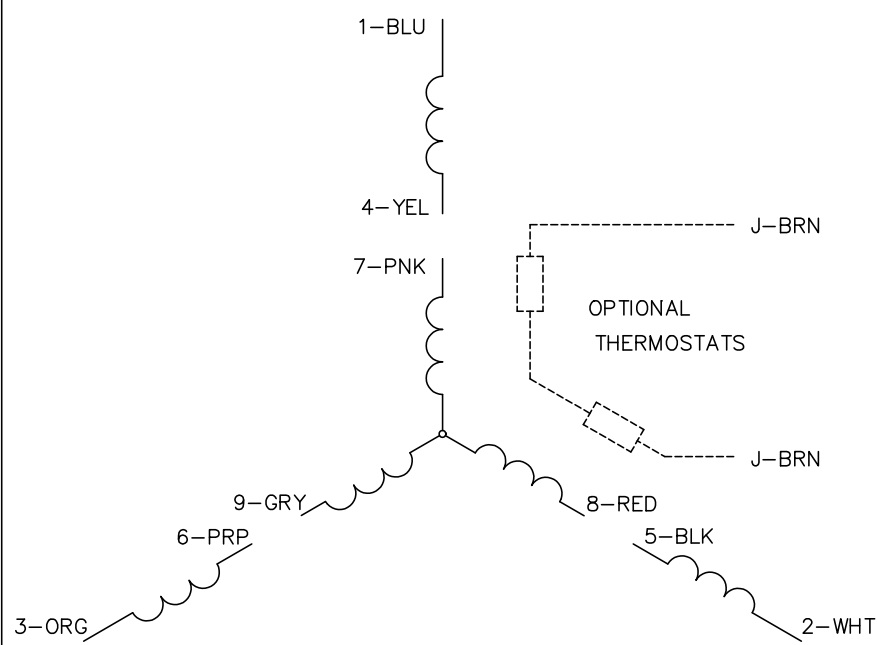
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3515 RPM 460 V 3756M

TORQUES (LB-FT) : PO=101 PU=32.98 LR=47.63 LRA=133



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
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005