

ABB BALDOR RELIANCE III

Customer information packet

CXM21722T

7.5//5HP, 3520//2920RPM, 3PH, 60//50HZ, 213T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	213TC
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	7.500 HP @ 60 HZ 5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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	15.400 A @ 190.0 V 18.000 A @ 230.0 V 7.700 A @ 380.0 V 9.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGR224
Layout	37LYL772
Eff. date	12-09-2021
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	02-17-2021

Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	7.7 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.06 IN
Power Factor	84
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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		T3C			
SPEC.	37-0000-0321						INV.TYPE		PWM			
CAT.NO.	CXM21722T						C HP FR		60	C HP TO		90
HP	7.5//5						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	18/9//15.4/7.7				MAG CUR		7.4/3.7					
RPM	3520//2920				MX RPM		5400					
HZ	60//50	PH	3	CL	F	NOM.EFF.		89.5				
SER.F.	1.00	DES	A	SL HZ		1.7	WK2	0.255				
FRAME	213TC	RATING		40C AMB-CONT								
	NEMA MG-1 PART 5, IP54											
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data

Record # 73679

Typical performance - not guaranteed values

Winding: 37WGR224-R054			Type: 3728M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5//5		Full Load Torque		10.9 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		18/9//15.4/7.7		Breakdown Torque		39.7 LB-FT		
R.P.M.		3520//2920		Pull-up Torque		20.6 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		21.8 LB-FT	
NEMA Design Code		A		KVA Code	J	Starting Current		68.4 A
Service Factor (S.F.)		1		No-load Current		3.83 A		
NEMA Nom. Eff.		89.5	Power Factor		84	Line-line Res. @ 25°C		1.1 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		49°C
						Locked-rotor Power Factor		33
						Rotor inertia		0.255 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	51	73	81	85	87	89
Efficiency	66.3	78.7	82.9	84.7	85.2	85.3
Speed	3576	3558	3537	3515	3491	3465
Line amperes	4.49	5.75	7.49	9.45	11.56	13.7

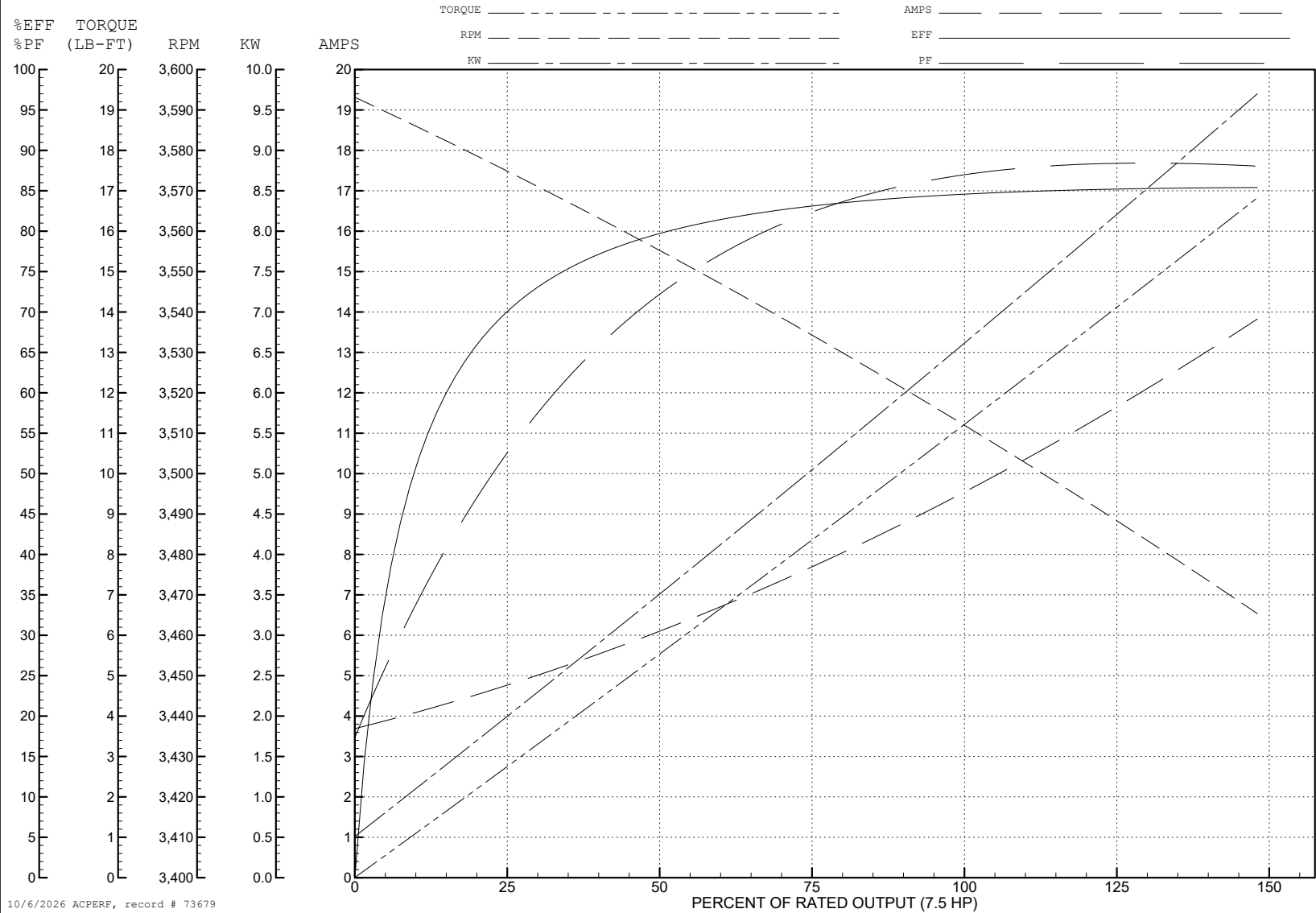
ABB Motors and Mechanical Inc.

WINDING # 37WGR224

Typical performance - not guaranteed values.

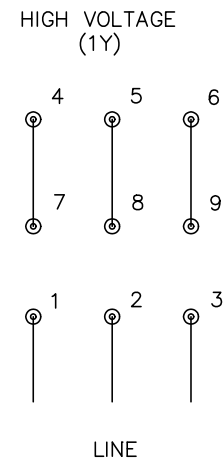
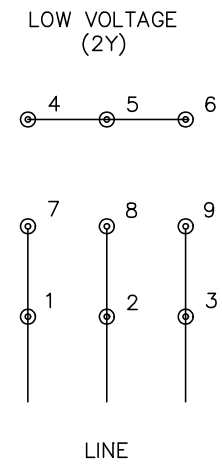
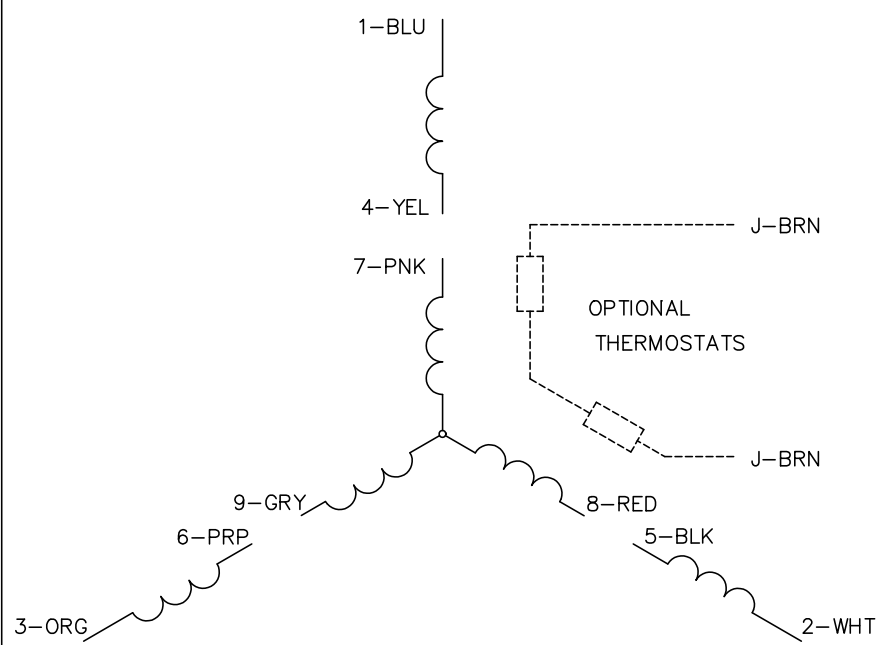
7.5 HP 3 PH 60 HZ 3515 RPM 460 V 3728M

TORQUES (LB-FT): PO=39.7 PU=20.6 LR=21.8 LRA=68.4





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