

ABB BALDOR RELIANCE III

Customer information packet

EM7037T-I

2//1.5HP, 1755//1455RPM, 3PH, 60//50HZ, 145T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	145T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 50 HZ 2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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
Current @ Voltage	6.000 A @ 208.0 V 5.600 A @ 230.0 V 5.000 A @ 190.0 V 2.800 A @ 460.0 V 2.500 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	E
Type	AC
Mech. spec.	35X081
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYX081
Eff. date	05-20-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.97 IN
Power Factor	74
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1456 rpm 1760 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

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE			T3C		
SPEC.	35X081G073G1											
CAT.NO.	EM7037T-I											
HP	2//1.5											
VOLTS	230/460//190/380											
AMPS	5.6/2.8//5.2/2.6											
RPM	1760//1465				MOTOR WEIGHT							
HERTZ	60//50		PH	3	CL	F	DE BRG	6205				
SER.F.	1.15		DES	B	CODE	K	ODE BRG		6203			
FRAME	145T		GREASE			POLYREX EM						
RATING	40C AMB-CONT											
					NEMA-NOM-EFF				86.5		PF	77
	SFA 5.62/2.81											

AC Induction Motor Performance Data

Record # 87411

Typical performance - not guaranteed values

Winding: 35WGG073-R007			Type: 3528M		Enclosure: XPFC		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		2//1.5		Full Load Torque		5.39 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		5.6/2.8//5/2.5		Breakdown Torque		18.6 LB-FT	
R.P.M.		1760//1456		Pull-up Torque		13.3 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		14.4 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		21 A
Service Factor (S.F.)		1.15		No-load Current		1.58 A	
NEMA Nom. Eff.		86.5	Power Factor	74	Line-line Res. @ 25°C		9.54 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		58°C	
S.F. Amps				Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		63.3	
				Rotor inertia		0.202 lb-ft²	

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	67	75	81	84	82
Efficiency	76.6	84.2	85.8	85.6	84.3	82.5	85
Speed	1492	1484	1474	1464	1453	1440	1461
Line amperes	1.66	1.88	2.2	2.62	3.11	3.67	2.81

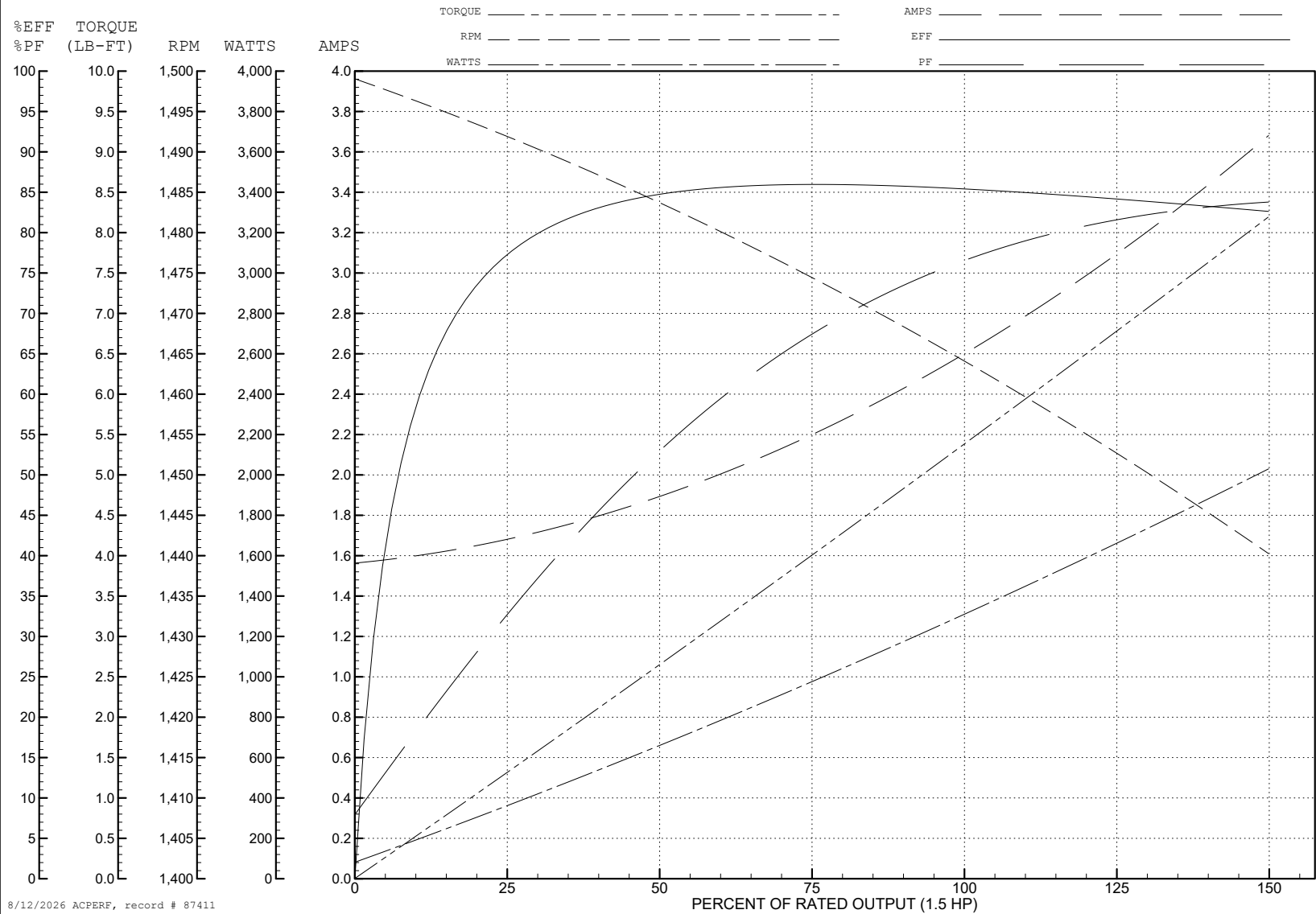
ABB Motors and Mechanical Inc.

WINDING # 35WGG073

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 1464 RPM 380 V 3528M

TORQUES (LB-FT): PO=18.6 PU=13.3 LR=14.4 LRA=21





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