

ABB BALDOR RELIANCE III

Customer information packet

CEM7014T-I

1//.75HP, 1760//1460RPM, 3PH, 60//50HZ, 143T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	143TC
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	.750 HP @ 50 HZ 1.000 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	3.260 A @ 230.0 V 3.200 A @ 208.0 V 3.080 A @ 190.0 V 1.630 A @ 460.0 V 1.540 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	35X732
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYX732
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	01-10-2022

Efficiency @ 100% Load	85.5 %
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	1.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.36 IN
Power Factor	67
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	Shaft Slinger
Speed	1475 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.	35X732G004G1											
CAT.NO.												
HP	1//.75											
VOLTS	230/460//190/380											
AMPS	3.26/1.63//3.08/1.54											
RPM	1760//1475				MOTOR WEIGHT							
HERTZ	60//50		PH	3	CL	F	DE BRG	6205				
SER.F.	1.15		DES	B	CODE	N	ODE BRG			6203		
FRAME	143TC		GREASE			POLYREX EM						
RATING	40C AMB-CONT											
					NEMA-NOM-EFF				85.5		PF	67
	SFA 3.46/1.73											

AC Induction Motor Performance Data

Record # 86929

Typical performance - not guaranteed values

Winding: 35WGG004-R009			Type: 3520M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		1//.75		Full Load Torque		2.97 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		3.26/1.63//3.08/1.54		Breakdown Torque		13.68 LB-FT
R.P.M.		1760//1475		Pull-up Torque		7.85 LB-FT
Hz		60//50 Phase		Locked-rotor Torque		9.01 LB-FT
NEMA Design Code		B KVA Code		Starting Current		14.13 A
Service Factor (S.F.)		1.15		No-load Current		1.08 A
NEMA Nom. Eff.		85.5 Power Factor		Line-line Res. @ 25°C		16.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C
S.F. Amps				Temp. Rise @ S.F. Load		27°C
				Locked-rotor Power Factor		61.5
				Rotor inertia		0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	47	60	69	76	79	73
Efficiency	72.1	81.7	84.7	85.7	85.5	84.7	85.6
Speed	1791	1784	1776	1768	1759	1750	1763
Line amperes	1.11	1.22	1.38	1.59	1.82	2.09	1.73

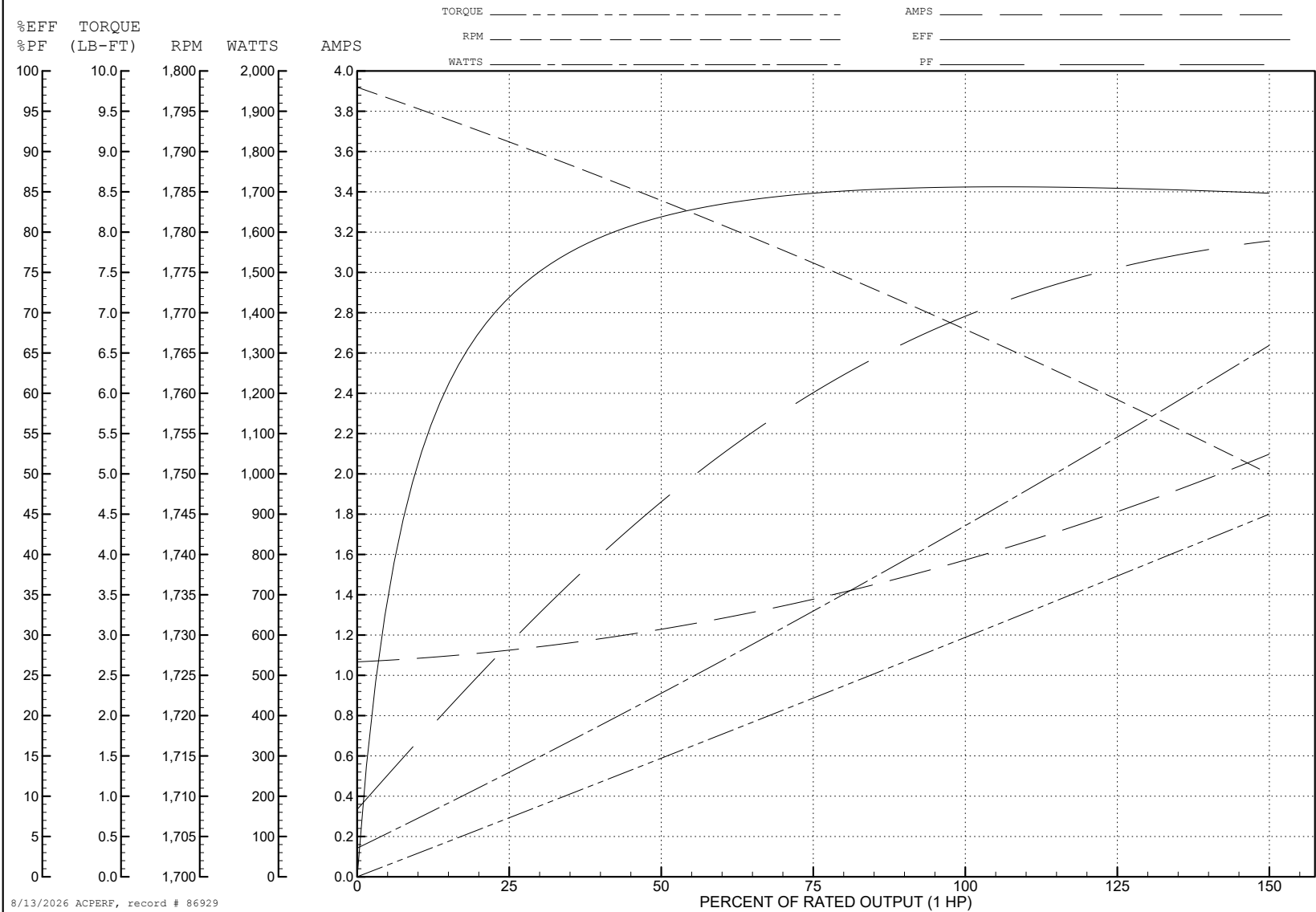
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WINDING # 35WGG004

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1768 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13



AC Induction Motor Performance Data

Record # 86930

Typical performance - not guaranteed values

Winding: 35WGG004-R009			Type: 3520M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		1//.75		Full Load Torque		2.68 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		3.26/1.63//3.08/1.54		Breakdown Torque		12.31 LB-FT		
R.P.M.		1760//1475		Pull-up Torque		7.45 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		8.55 LB-FT	
NEMA Design Code		B		KVA Code	N	Starting Current		13.12 A
Service Factor (S.F.)		1.15		No-load Current		1.06 A		
NEMA Nom. Eff.		85.5	Power Factor	67	Line-line Res. @ 25°C		16.9 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		22°C		
S.F. Amps				Temp. Rise @ S.F. Load		25°C		
				Locked-rotor Power Factor		67.1		
				Rotor inertia		0.144 lb-ft²		

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	58	67	74	79	71
Efficiency	68.3	79	82.7	84	83.7	83.2	83.8
Speed	1492	1486	1479	1471	1463	1455	1466
Line amperes	1.08	1.18	1.32	1.5	1.71	1.95	1.63

ABB Motors and Mechanical Inc.

WINDING # 35WGG004

0.75 HP 3 PH 50 HZ 1471 RPM 380 V 3520M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=12.31 PU=7.45 LR=8.55 LRA=13.12

