

ABB BALDOR RELIANCE III

Customer information packet

CM7014-I

1//.75HP, 1750//1450RPM, 3PH, 60//50HZ, 56C

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
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	1.000 HP @ 60 HZ .750 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 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
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	1.500 A @ 380.0 V 1.600 A @ 460.0 V 3.000 A @ 190.0 V 3.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %

Part Detail

Revision	R
Type	AC
Mech. spec.	35X738
Base	
Status	INA/A
Elec. spec.	35WGP674
Layout	35LYX738
Eff. date	06-09-2020
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-08-2008

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
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	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.28 IN
Power Factor	73
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	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 rpm
	1750 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

NP0977XPSL												
NO.									CC			
SER.									TEMP CODE		T3C	
SPEC.	35X738P674H1											
CAT.NO.	CM7014-I											
HP	1//.75											
VOLTS	230/460//190/380											
AMPS	3.2/1.6//3/1.5											
RPM	1750//1450					MOTOR WEIGHT					52	
HERTZ	60//50	PH	3	CL	F	DE BRG	6205					
SER.F.	1.15	DES	B	CODE	M	ODE BRG	6203					
FRAME	56C	GREASE			POLYREX EM							
RATING	40C AMB-CONT											
NEMA-NOM-EFF	82.5	PF	73									
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data

Record # 26753

Typical performance - not guaranteed values

Winding: 35WGP674-R007			Type: 3516M		Enclosure: XPFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1//.75	Full Load Torque		2.99 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		3.2/1.6//3/1.5	Breakdown Torque		17.8 LB-FT		
R.P.M.		1750//1450	Pull-up Torque		8.32 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		10.4 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		13.2 A
Service Factor (S.F.)		1.15		No-load Current		1.04 A	
NEMA Nom. Eff.		82.5	Power Factor	73	Line-line Res. @ 25°C		16.3 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C	
S.F. Amps				Temp. Rise @ S.F. Load		47°C	
				Locked-rotor Power Factor		63	
				Rotor inertia		0.0946 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	50	63	72	79	83	76
Efficiency	66.6	78	81.4	82.6	82.5	81.6	82.5
Speed	1788	1776	1764	1750	1735	1719	1741
Line amperes	1.11	1.2	1.36	1.56	1.77	2.06	1.69

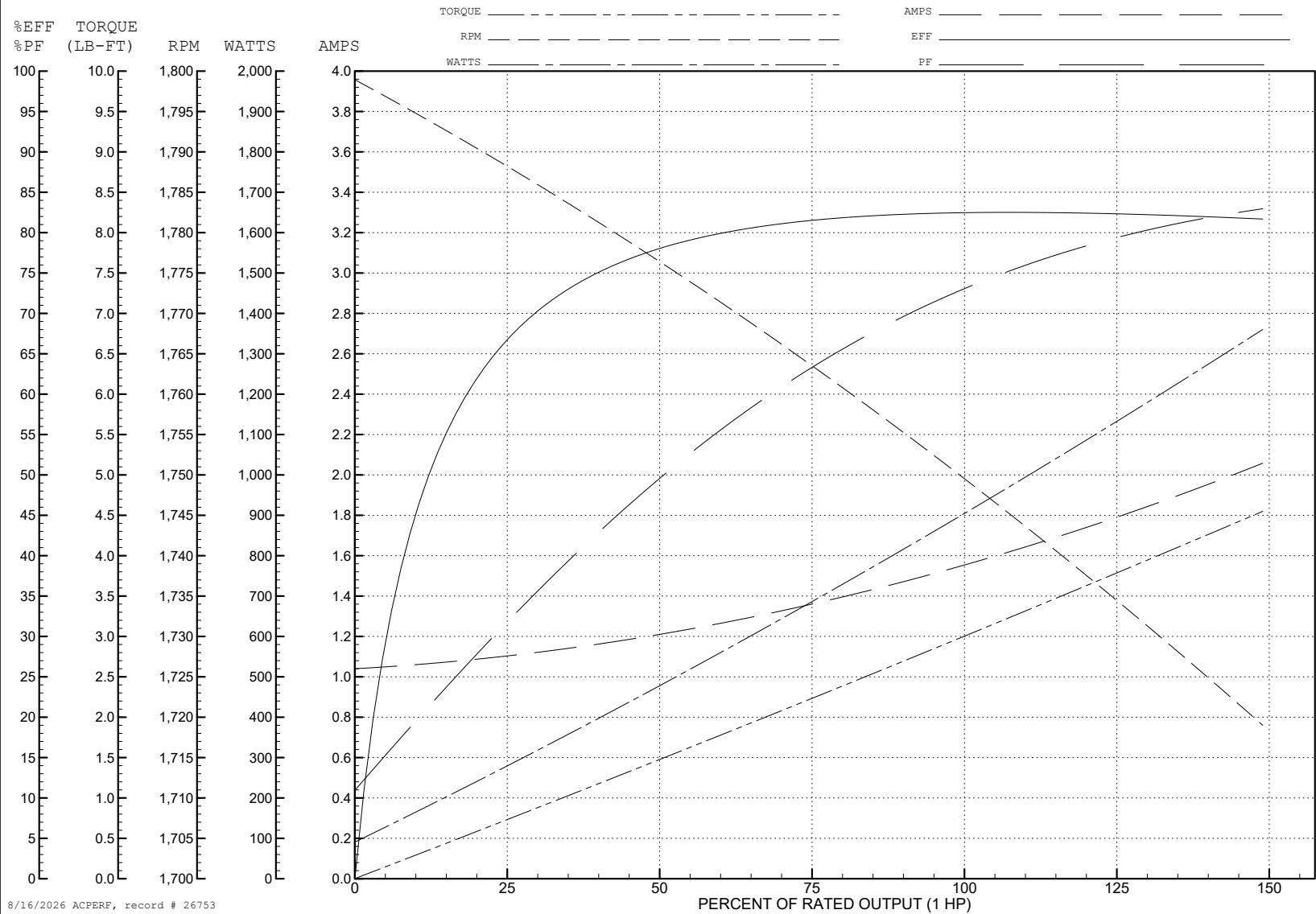
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WINDING # 35WGP674

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1750 RPM 460 V 3516M

TORQUES (LB-FT): PO=17.8 PU=8.32 LR=10.4 LRA=13.2



AC Induction Motor Performance Data

Record # 26754

Typical performance - not guaranteed values

Winding: 35WGP674-R007			Type: 3516M		Enclosure: XPFC			
Nameplate Data			380 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		1//.75	Full Load Torque		2.7 LB-FT			
Volts		230/460//190/380	Start Configuration		direct on line			
Full Load Amps		3.2/1.6//3/1.5	Breakdown Torque		16 LB-FT			
R.P.M.		1750//1450	Pull-up Torque		8.1 LB-FT			
Hz		60//50	Phase		3	Locked-rotor Torque	10.1 LB-FT	
NEMA Design Code		B	KVA Code		M	Starting Current	12.1 A	
Service Factor (S.F.)		1.15	No-load Current		1.02 A			
NEMA Nom. Eff.		82.5	Power Factor		73	Line-line Res. @ 25°C	16.3 Ω	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			37°C
S.F. Amps					Temp. Rise @ S.F. Load			42°C
					Locked-rotor Power Factor			69
					Rotor inertia			0.0946 LB-FT2

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	61	71	78	82	75
Efficiency	64.3	76.4	80.2	81.5	81.4	80.3	81.4
Speed	1489	1478	1467	1454	1440	1426	1446
Line amperes	1.08	1.16	1.29	1.47	1.66	1.92	1.58

ABB Motors and Mechanical Inc.

WINDING # 35WGP674

Typical performance - not guaranteed values.

0.75 HP 3 PH 50 HZ 1454 RPM 380 V 3516M

TORQUES (LB-FT): PO=16 PU=8.1 LR=10.1 LRA=12.1

