

ABB BALDOR RELIANCE III

Customer information packet

CEM7071T

1.5//2HP, 2890//3490RPM, 3PH, 50//60HZ, 145T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	145TC
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	1.500 HP @ 50 HZ 2.000 HP @ 60 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 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	5.300 A @ 208.0 V 5.000 A @ 230.0 V 4.800 A @ 190.0 V 2.500 A @ 460.0 V 2.400 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	R
Type	AC
Mech. spec.	35E377
Base	
Status	PRD/A
Elec. spec.	35WGM774
Layout	35LYE377
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-26-2010

Efficiency @ 100% Load	85.5 %
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	2.4 a
Insulation Class	B
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	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.23 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	2890 rpm 3490 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

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	35E377M774G2								
CAT.NO.	CEM7071T								
HP	1.5//2	T. CODE	T3C						
VOLTS	190/380//230/460								
AMPS	4.8/2.4//5/2.5								
RPM	2890//3490								
HZ	50//60	PH	3	CL	B				
SER.F.	1.00	DES	B	CODE	M				
RATING	40C AMB-CONT								
FRAME	143TC	NEMA-NOM-EFF	85.5						
		PF	88						
BLANK									

AC Induction Motor Performance Data

Record # 31998

Typical performance - not guaranteed values

Winding: 35WGM774-R003				Type: 3526M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5//2		Full Load Torque		2.98 LB-FT	
Volts		190/380//230/460		Start Configuration		direct on line	
Full Load Amps		4.8/2.4//5/2.5		Breakdown Torque		14.2 LB-FT	
R.P.M.		2890//3490		Pull-up Torque		6.33 LB-FT	
Hz		50//60		Phase		3	
NEMA Design Code		B		KVA Code		M	
Service Factor (S.F.)		1		No-load Current		0.912 A	
NEMA Nom. Eff.		85.5		Power Factor		88	
Rating - Duty		40C		AMB-CONT			
				Locked-rotor Power Factor			
				Rotor inertia			

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	55	75	84	88	90	91
Efficiency	74.3	83.5	85.9	86.4	85.9	84.8
Speed	3571.7	3546.5	3520.2	3492.1	3460.7	3425.5
Line amperes	1.1	1.47	1.93	2.44	3	3.61

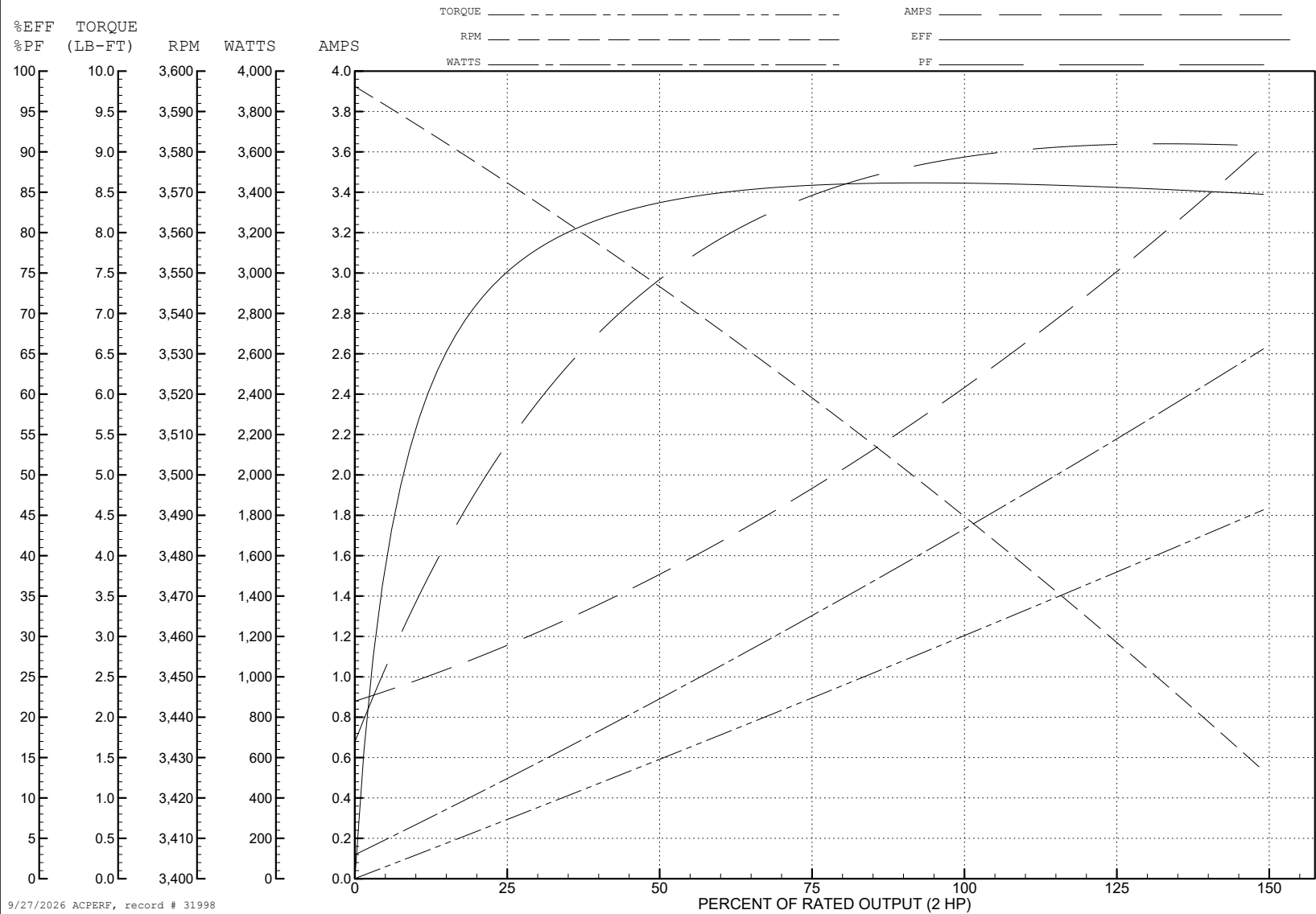
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WINDING # 35WGM774

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3492.1 RPM 460 V 3526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9



AC Induction Motor Performance Data

Record # 31999

Typical performance - not guaranteed values

Winding: 35WGM774-R003				Type: 3526M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		1.5//2		Full Load Torque		2.69 LB-FT	
Volts		190/380//230/460		Start Configuration		direct on line	
Full Load Amps		4.8/2.4//5/2.5		Breakdown Torque		13.2 LB-FT	
R.P.M.		2890//3490		Pull-up Torque		6.62 LB-FT	
Hz		50//60		Phase		3	
NEMA Design Code		B		KVA Code		M	
Service Factor (S.F.)		1		No-load Current		0.893 A	
NEMA Nom. Eff.		85.5		Power Factor		88	
Rating - Duty		40C		AMB-CONT			
				Temp. Rise @ Rated Load		38°C	
				Locked-rotor Power Factor		56	
				Rotor inertia		0.0719 LB-FT2	

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	52	73	82	87	90	91
Efficiency	73.5	83.3	85.3	85.9	85.3	83.7
Speed	2974	2951	2927	2901	2872	2840
Line amperes	1.05	1.38	1.79	2.25	2.75	3.31

ABB Motors and Mechanical Inc.

WINDING # 35WGM774

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 2901 RPM 380 V 3526M

TORQUES (LB-FT): PO=13.2 PU=6.62 LR=11.7 LRA=24.4

