

ABB BALDOR RELIANCE III

Customer information packet

EJM3546

1HP, 1770RPM, 3PH, 60HZ, 56J, 3522M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.400 A @ 230.0 V 3.300 A @ 208.0 V 1.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	E
Type	AC
Mech. spec.	35F084
Base	
Status	PRD/A
Elec. spec.	35WGZ805
Layout	35LYF084
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
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	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.74 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441L											
CAT.NO.	EJM3546										
SPEC.	35F084Z805G1										
HP	1										
VOLTS	208-230/460										
AMP	3.3-3.4/1.7										
RPM	1770										
FRAME	56J		HZ	60				PH	3		
SER.F.	1.15	CODE	N	DES	B	CL	F				
NEMA-NOM-EFF	85.5	PF	66								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
	SFA 3.6/1.8										

AC Induction Motor Performance Data

Record # 105401

Typical performance - not guaranteed values

Winding: 35WGZ805-R001			Type: 3522M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		2.97 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		3.3-3.4/1.7	Breakdown Torque		14.7 LB-FT		
R.P.M.		1770	Pull-up Torque		7.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		9.4 LB-FT	
NEMA Design Code		B	KVA Code	N	Starting Current		15.6 A
Service Factor (S.F.)		1.15	No-load Current		1.2 A		
NEMA Nom. Eff.		85.5	Power Factor	66	Line-line Res. @ 25°C		14.6 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		37°C
S.F. Amps		3.6/1.8	Temp. Rise @ S.F. Load		43°C		
			Locked-rotor Power Factor		58.6		
			Rotor inertia		0.159 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	57	66	73	78	70
Efficiency	71.1	81.8	85.2	86.5	86.6	86.3	86.6
Speed	1796	1790	1784	1778	1772	1765	1774
Line amperes	1.23	1.31	1.46	1.64	1.86	2.09	1.77

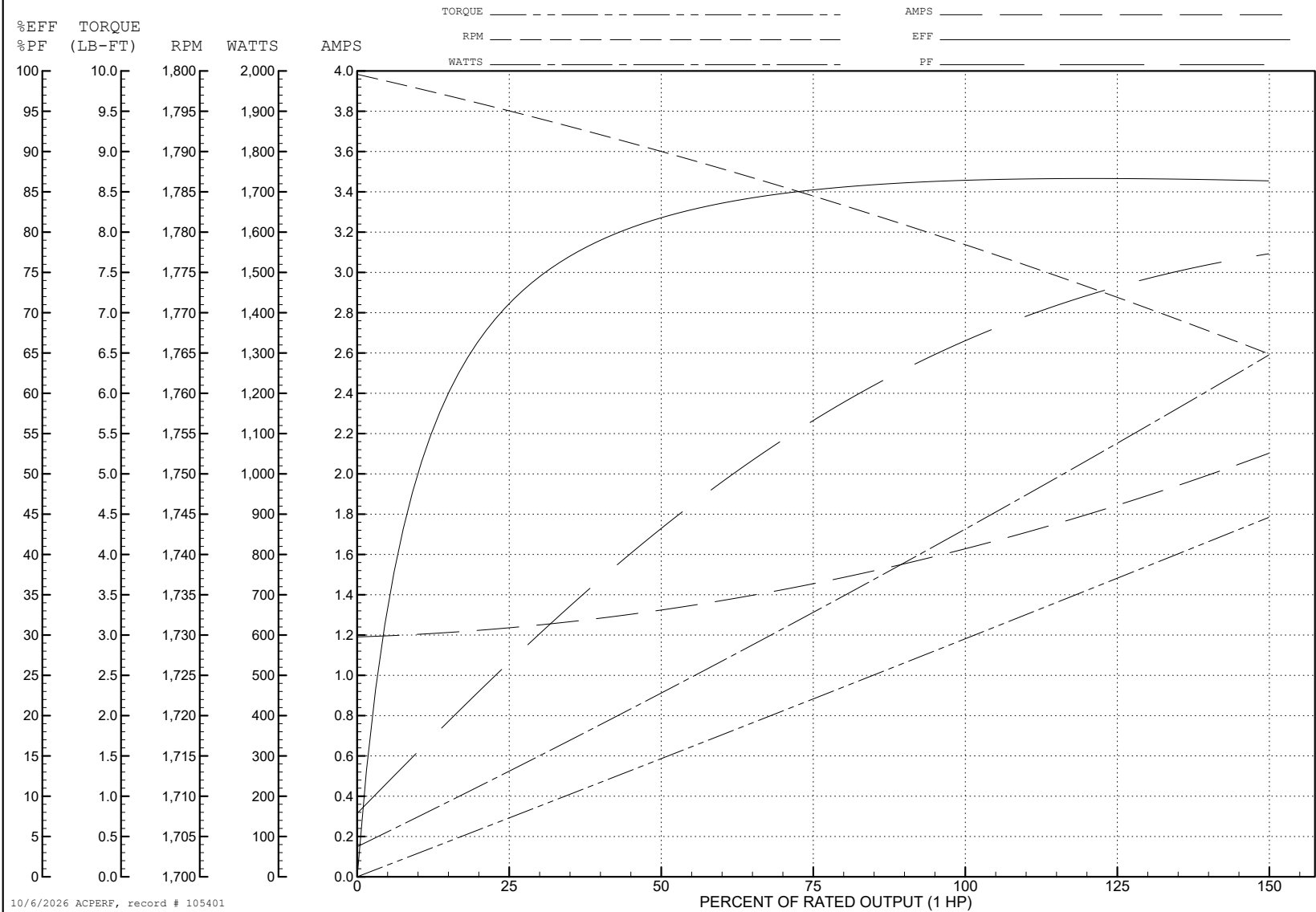
ABB Motors and Mechanical Inc.

WINDING # 35WGZ805

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 3522M

TORQUES (LB-FT): PO=14.7 PU=7.5 LR=9.4 LRA=15.6



10/6/2026 ACPERF, record # 105401

