

ABB BALDOR RELIANCE III

Customer information packet

SPJMM3546T-G

1HP, 1770RPM, 3PH, 60HZ, 143JM, 3522M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143JM
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM WEEE
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	3.400 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
Heater Indicator	No Heater

Part Detail

Revision	A
Type	AC
Mech. spec.	35EE455
Base	
Status	PRD/A
Elec. spec.	35WGZ805
Layout	35LYEE455
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-30-2025

High Voltage Full Load Amps	1.7 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	15.41 IN
Power Factor	66
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP4423A01A01L															
CAT #	SPJMM3546T-G					WGT	37	LBS							
SPEC	35EE455Z805					ENCL	TEFC								
SER #						CC	010A	IP	54						
HP	1	MAG CUR				1-2.4/1.2									
VOLTS	208-230/460					NEMA NOM. EFF				85.5					
AMPS	3.3-3.4/1.7					PF	66								
RATING	40C AMB-CONT														
RPM	1770					MAX RPM		2700							
FRAME	143JM	HZ	60		CODE	N	CLASS		H						
SER.F.	1.25	SF AMP	3.8/1.9				PH	3	DES	B					
DE	6206		ODE		6203										
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO	90	1.5:1				
ID LOGO	WK2	0.159	CT	6	TO	60	10:1								
ID LOGO	SL HZ	1	VT	3	TO	60	20:1								
							QR								
YR															

AC Induction Motor Performance Data

Record # 112325

Typical performance - not guaranteed values

Winding: 35WGZ805-R079			Type: 3522M		Enclosure: TEFC	
Nameplate Data			440 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		2.958 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		3.3-3.4/1.7	Breakdown Torque		14.3 LB-FT	
R.P.M.		1770	Pull-up Torque		7.26 LB-FT	
Hz		60	Phase		3	
NEMA Design Code		B	KVA Code		N	
Service Factor (S.F.)		1.25	Starting Current		15.9 A	
NEMA Nom. Eff.		85.5	Power Factor		66	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		3.8/1.9	Temp. Rise @ S.F. Load		45°C	
			Locked-rotor Power Factor		58.6	
			Rotor inertia		0.159 lb-ft²	

Load Characteristics 440 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	45	57	67	74	78	74
Efficiency	71.2	81.7	85.1	86.3	86.5	86.1	86.5
Speed	1795.5	1790	1784.1	1778	1771.4	1764.3	1771
Line amperes	1.26	1.35	1.51	1.7	1.93	2.18	1.93

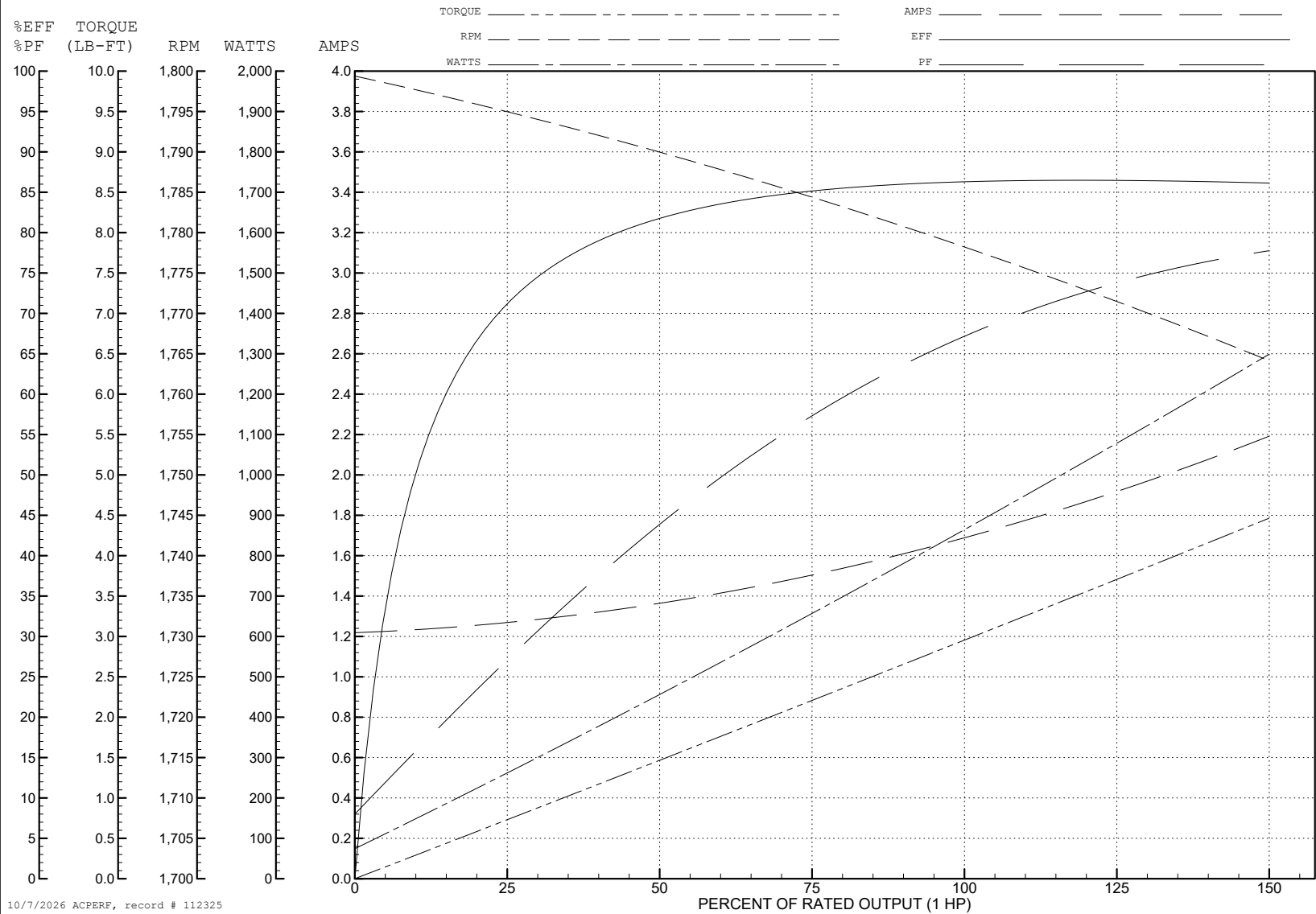
ABB Motors and Mechanical Inc.

WINDING # 35WGZ805

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 440 V 3522M

TORQUES (LB-FT): PO=14.3 PU=7.26 LR=9.12 LRA=15.9



10/7/2026 ACPERF, record # 112325

