

ABB BALDOR RELIANCE III

Customer information packet

SPJPM3555T

2HP, 3475RPM, 3PH, 60HZ, 145JP, 3532M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145JP
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	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	2.400 A @ 460.0 V 4.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a
Insulation Class	H
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	35EE456
Base	
Status	PRD/A
Elec. spec.	35WGK113
Layout	35LYEE456
Eff. date	03-12-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	08-08-2025

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.35 IN
Power Factor	89
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3475 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 #	SPJPM3555T					WGT	50		LBS					
SPEC	35EE456K113					ENCL	TEFC							
SER #						CC	010A		IP	54				
HP	2		MAG CUR			1.6-1.8/.9//1.8/.9								
VOLTS	208-230/460//190/380					NEMA NOM. EFF					86.5			
AMPS	5.3-4.8/2.4//5.8/2.9						PF	89						
RATING	40C AMB-CONT													
RPM	3475//2845					MAX RPM			5400					
FRAME	145JP		HZ	60//50		CODE	L		CLASS	H				
SER.F.	1.15		SF AMP	6.1-6/3//6.8/3.4					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	0.09		CT	6		TO	60		10:1				
ID LOGO	SL HZ	2.1		VT	3		TO	60		20:1				
							QR							
YR														

AC Induction Motor Performance Data

Record # 115515

Typical performance - not guaranteed values

Winding: 35WGK113-R005		Type: 3532M	Enclosure: TEFC	
Nameplate Data			380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	2		Full Load Torque	3.68 LB-FT
Volts	208-230/460//190/380		Start Configuration	direct on line
Full Load Amps	5.3-4.8/2.4//5.8/2.9		Breakdown Torque	11.8 LB-FT
R.P.M.	3475//2845		Pull-up Torque	7.5 LB-FT
Hz	60//50	Phase 3	Locked-rotor Torque	11.5 LB-FT
NEMA Design Code	B	KVA Code L	Starting Current	23.2 A
Service Factor (S.F.)	1.15		No-load Current	0.87 A
NEMA Nom. Eff.	86.5	Power Factor 89	Line-line Res. @ 25°C	7.06 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	67°C
S.F. Amps	6.1-6/3//6.8/3.4		Temp. Rise @ S.F. Load	86°C
			Locked-rotor Power Factor	53.7
			Rotor inertia	0.0885 lb-ft ²

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	80	87	90	92	92	91
Efficiency	81	86.7	86.3	85.2	82.7	79.9	83.7
Speed	2962	2926	2888	2847	2797	2741	2817
Line amperes	1.13	1.66	2.26	2.93	3.74	4.61	3.42

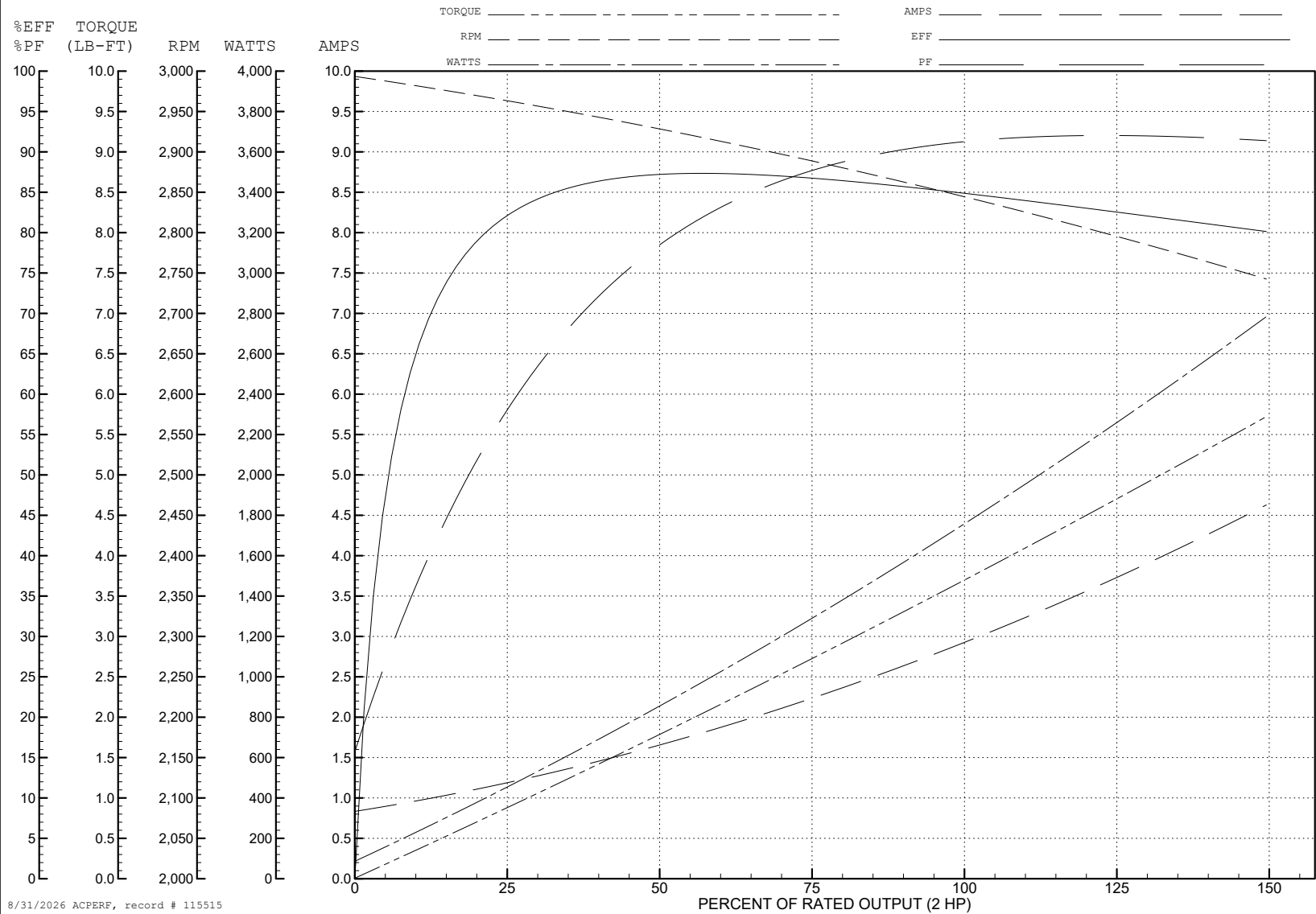
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WINDING # 35WGK113

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 2847 RPM 380 V 3532M

TORQUES (LB-FT): PO=11.8 PU=7.5 LR=11.5 LRA=23.2



AC Induction Motor Performance Data

Record # 115516

Typical performance - not guaranteed values

Winding: 35WGK113-R005		Type: 3532M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	3.01 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	5.3-4.8/2.4//5.8/2.9	Breakdown Torque	12.6 LB-FT
R.P.M.	3475//2845	Pull-up Torque	7.1 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	10.9 LB-FT
NEMA Design Code	B KVA Code	Starting Current	24.5 A
Service Factor (S.F.)	1.15	No-load Current	0.88 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	7.06 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	51°C
S.F. Amps	6.1-6/3//6.8/3.4	Temp. Rise @ S.F. Load	61°C
		Locked-rotor Power Factor	47.3
		Rotor inertia	0.0885 lb-ft ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	84	89	91	92	90
Efficiency	78.9	86.2	87	87.1	85.8	84.4	86.3
Speed	3568	3538	3508	3476	3439	3400	3454
Line amperes	1.06	1.46	1.91	2.41	3	3.61	2.76

ABB Motors and Mechanical Inc.

WINDING # 35WGK113

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3476 RPM 460 V 3532M

TORQUES (LB-FT): PO=12.6 PU=7.1 LR=10.9 LRA=24.5

