

ABB BALDOR RELIANCE III

Customer information packet

SPM30006

.33HP, 3450RPM, 3PH, 60HZ, 48, 3416M, ODP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	48
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	.330 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 C UR US
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	.400 A @ 460.0 V .800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.4 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	34B051
Base	
Status	PRD/A
Elec. spec.	34WGS342
Layout	34LYB051
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-12-2023

Inverter Code	Not Inverter
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	9.62 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP4558A02LL											
CAT #	SPM30006			WGT	24		LBS				
SER #				ENCL	ODP						
SPEC	34B051S342			CC			IP	23			
HP	.33			NEMA NOM. EFF							74
VOLTS	230/460			PF	81						
AMPS	.8/.4										
RATING	40C AMB-CONT										
RPM	3450			PH	3		DES	B			
FRAME	48	HZ	60	CODE	P		CLASS	F			
SER.F.	1.35	SF AMP	1/.5								
DE	6203		ODE	6203							
GREASE	POLYREX EM										

AC Induction Motor Performance Data

Record # 100835

Preliminary Data Sheet

Winding: 34WGS342-R005			Type: 3416M		Enclosure: ODP	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.33	Full Load Torque		0.5 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		.8/.4	Breakdown Torque		2.9 LB-FT	
R.P.M.		3450	Pull-up Torque		1.65 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		2.3 LB-FT	
NEMA Design Code		B	Starting Current		4.5 A	
Service Factor (S.F.)		1.35	No-load Current		0.29 A	
NEMA Nom. Eff.		74	Line-line Res. @ 25°C		34.8 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		21°C	
S.F. Amps		1/.5	Temp. Rise @ S.F. Load		76°C	
			Locked-rotor Power Factor		65.1	
			Rotor inertia		0.0148 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	65	75	81	85	87	86
Efficiency	48.1	63.6	70.8	74.6	76.6	77.1	76.8
Speed	3559	3535	3509	3482	3453	3441	3448
Line amperes	0.33	0.37	0.44	0.51	0.59	0.63	0.606

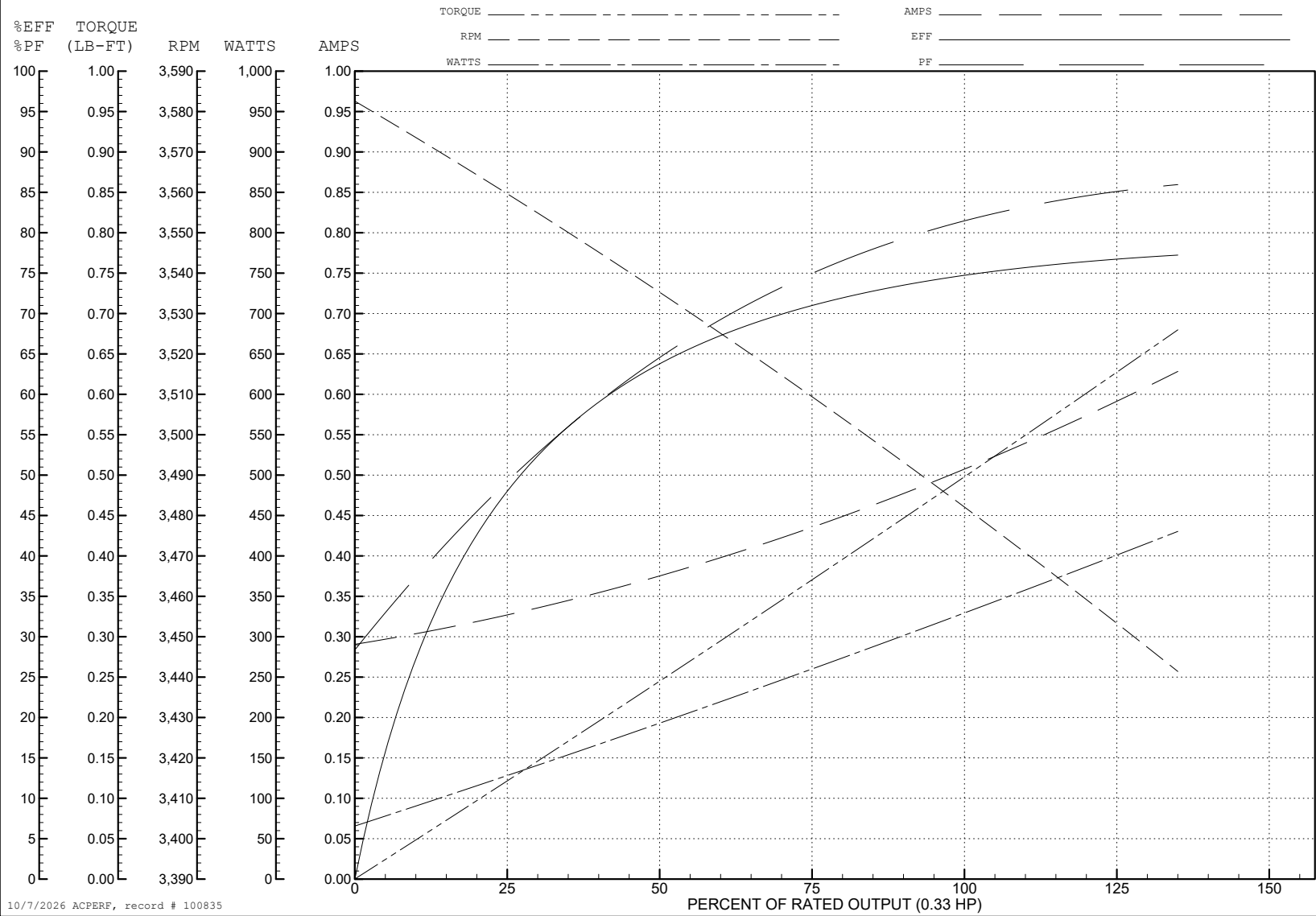
ABB Motors and Mechanical Inc.

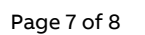
WINDING # 34WGS342

Typical performance - not guaranteed values.

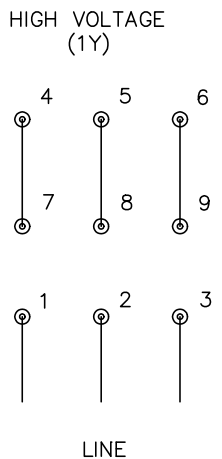
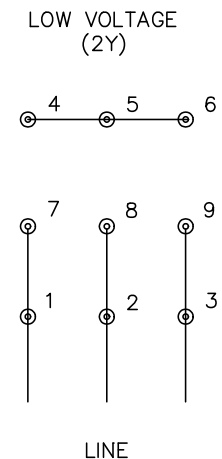
0.33 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

TORQUES (LB-FT) : PO=2.9 PU=1.65 LR=2.3 LRA=4.5





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005