

ABB BALDOR RELIANCE III

Customer information packet

CJM3158

3HP, 3450RPM, 3PH, 60HZ, 56J, 3524M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UR
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	8.500 A @ 208.0 V 8.000 A @ 230.0 V 4.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

Part Detail

Revision	AA
Type	AC
Mech. spec.	35T961
Base	
Status	PRD/A
Elec. spec.	35WGR286
Layout	35LYT961
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-22-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	3524M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.74 IN
Power Factor	87
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 Extension Location	Pulley End
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

NP1256L											
CAT.NO.	CJM3158										
SPEC.	35T961R286G1										
HP	3										
VOLTS	208-230/460										
AMP	8.5-8/4										
RPM	3450										
FRAME	56J		HZ	60				PH	3		
SER.F.	1.15		CODE	K	DES	B		CLASS		B	
NEMA-NOM-EFF	80		PF	87							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	ODTF		SN								

AC Induction Motor Performance Data

Record # 8536

Typical performance - not guaranteed values

Winding: 35WGR286-R001			Type: 3524M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		4.6 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		8.5-8/4	Breakdown Torque		16.8 LB-FT		
R.P.M.		3450	Pull-up Torque		10.1 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	14.2 LB-FT
NEMA Design Code		B	KVA Code		K	Starting Current	30.9 A
Service Factor (S.F.)		1.15	No-load Current		1.6 A		
NEMA Nom. Eff.		80	Power Factor		87	Line-line Res. @ 25°C	5.928 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		42°C
S.F. Amps			Temp. Rise @ S.F. Load		50°C		
			Locked-rotor Power Factor		55		
			Rotor inertia		0.0664 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	74	83	87	89	89	88
Efficiency	68.6	78.2	80.7	81	79.9	78.1	80.3
Speed	3565	3520	3484	3444	3400	3346	3418
Line amperes	1.9	2.5	3.2	4	4.9	5.9	4.5

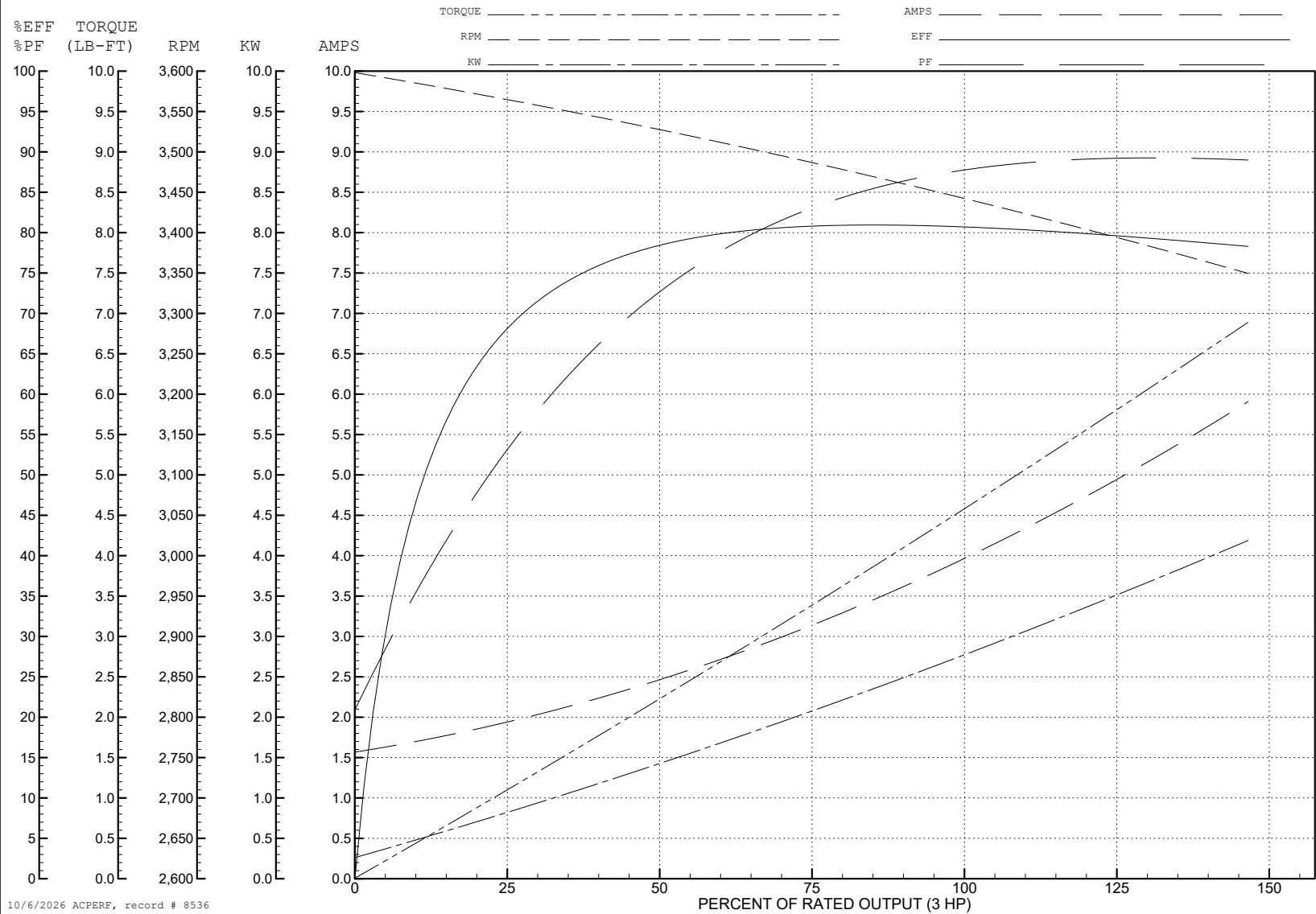
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WINDING # 35WGR286

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3524M

TORQUES (LB-FT): PO=16.8 PU=10.1 LR=14.2 LRA=30.9



AC Induction Motor Performance Data

Record # 20324

Typical performance - not guaranteed values

Winding: 35WGR286-R002			Type: 3524M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		4.6 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		8.5-8/4	Breakdown Torque		16.8 LB-FT		
R.P.M.		3450	Pull-up Torque		10.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		14.2 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		30.9 A
Service Factor (S.F.)		1.15	No-load Current		1.6 A		
NEMA Nom. Eff.		80	Power Factor	87	Line-line Res. @ 25°C		5.928 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		42°C
S.F. Amps					Temp. Rise @ S.F. Load		50°C
					Locked-rotor Power Factor		55
					Rotor inertia		0.0664 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	74	83	87	89	89	88
Efficiency	68.6	78.2	80.7	81	79.9	78.1	80.3
Speed	3565	3520	3484	3444	3400	3346	3418
Line amperes	1.9	2.5	3.2	4	4.9	5.9	4.5

ABB Motors and Mechanical Inc.

WINDING # 35WGR286

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3524M

TORQUES (LB-FT): PO=16.8 PU=10.1 LR=14.2 LRA=30.9

