

ABB BALDOR RELIANCE III

Customer information packet

CSWDM3557

1.5HP, 1140RPM, 3PH, 60HZ, 56C, 3529M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.000 A @ 208.0 V 4.900 A @ 230.0 V 2.450 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	M
Type	AC
Mech. spec.	35S641
Base	
Status	NLA/A
Elec. spec.	35WGM899
Layout	35LYS641
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	10-04-2010

High Voltage Full Load Amps	2.5 a
Insulation Class	F
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	3529M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	14.12 IN
Power Factor	72
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
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	Shaft Slinger
Speed	1140 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

NP1496L									
CAT.NO.									
SPEC.	35S641M899G1								
HP	1.5								
VOLTS	208-230/460								
AMP	5-4.9/2.45								
RPM	1140								
FRAME	56C		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CLASS	F		
NEMA-NOM-EFF	80	PF	72						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 33199

Typical performance - not guaranteed values

Winding: 35WGM899-R001			Type: 3529M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		6.97 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		5.1-5/2.5	Breakdown Torque		23.6 LB-FT	
R.P.M.		1140	Pull-up Torque		18 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		19.1 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		15.4 A	
Service Factor (S.F.)		1.15	No-load Current		1.56 A	
NEMA Nom. Eff.		80 Power Factor	Line-line Res. @ 25°C		11.121 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		84°C	
S.F. Amps			Temp. Rise @ S.F. Load		104°C	
			Locked-rotor Power Factor		50	
			Rotor inertia		0.172 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	63	72	77	80	75
Efficiency	70.6	79.3	81.3	80.6	78.6	75.7	79.4
Speed	1186.7	1173	1158.4	1140.3	1121.1	1097.7	1129
Line amperes	1.63	1.81	2.09	2.45	2.92	3.48	2.73

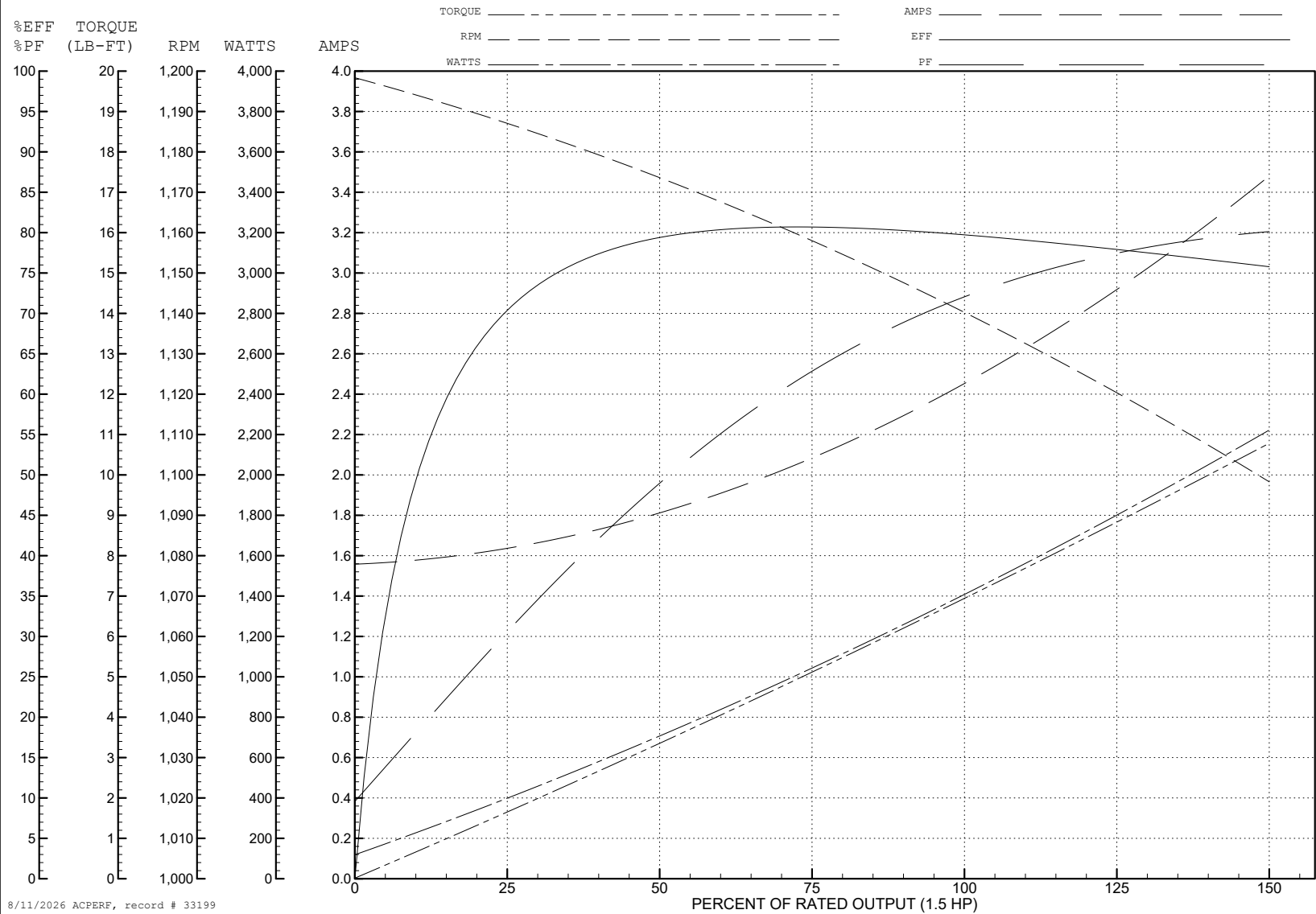
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WINDING # 35WGM899

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1140 RPM 460 V 3529M

TORQUES (LB-FT): PO=23.6 PU=18 LR=19.1 LRA=15.4



AC Induction Motor Performance Data

Record # 53824

Typical performance - not guaranteed values

Winding: 35WGM899-R001			Type: 3529M		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		6.97 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		5-4.9/2.45	Breakdown Torque		23.6 LB-FT	
R.P.M.		1140	Pull-up Torque		18 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		19.1 LB-FT
NEMA Design Code		B	KVA Code		K	
Service Factor (S.F.)		1.15	Starting Current		30.8 A	
NEMA Nom. Eff.		80	Power Factor		72	
Rating - Duty		40C	AMB-CONT			
S.F. Amps			Temp. Rise @ Rated Load		84°C	
			Temp. Rise @ S.F. Load		100°C	
			Locked-rotor Power Factor		50.2	
			Rotor inertia		0.172 LB-FT2	

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	63	72	77	80	75
Efficiency	69	78.4	80.3	80.6	78.2	75.5	79.2
Speed	1187	1173	1158	1140	1121	1098	1129
Line amperes	3.26	3.62	4.18	4.9	5.84	6.96	5.46

ABB Motors and Mechanical Inc.

WINDING # 35WGM899

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1140 RPM 230 V 3529M

TORQUES (LB-FT): PO=23.6 PU=18 LR=19.1 LRA=30.8

