

ABB BALDOR RELIANCE III

Customer information packet

JMM4106T

20HP, 3480RPM, 3PH, 60HZ, 256JM, 0754M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256JM
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 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	51.000 A @ 208.0 V 46.000 A @ 230.0 V 23.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	07H389
Base	
Status	NLA/A
Elec. spec.	07WGY016
Layout	07LYH389
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	02
Leads	9#10
Proprietary	False
Created date	09-22-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0754M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.83 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3480 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.	JMM4106T										
SPEC.	07H389Y016H1										
HP	20										
VOLTS	208-230/460										
AMP	51-46/23										
RPM	3480										
FRAME	256JM		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	A	CLASS		F			
NEMA-NOM-EFF	90.2	PF	90								
RATING	40C AMB-CONT										
CC	010A										
DE	6309		ODE	6307							
ENCL	TEFC	SN									

AC Induction Motor Performance Data

Record # 31822

Typical performance - not guaranteed values

Winding: 07WGY016-R001				Type: 0754M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20		Full Load Torque		30 LB-FT	
Volts		208-230/460		Start Configuration		direct on line	
Full Load Amps		51-46/23		Breakdown Torque		113 LB-FT	
R.P.M.		3480		Pull-up Torque		55.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		65.9 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		169 A	
Service Factor (S.F.)		1.15		No-load Current		6.11 A	
NEMA Nom. Eff.		90.2	Power Factor	90	Line-line Res. @ 25°C		0.413 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		80°C	
S.F. Amps				Temp. Rise @ S.F. Load		105°C	
				Locked-rotor Power Factor		29	
				Rotor inertia		0.492 LB-FT2	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	84	88	90	90	91	90
Efficiency	88.6	91.5	91.4	90.3	88.7	86.8	89.3
Speed	3571.9	3543.4	3512.4	3478.4	3440	3396.7	3455
Line amperes	8.29	12.6	17.7	23.2	29.6	35.9	27

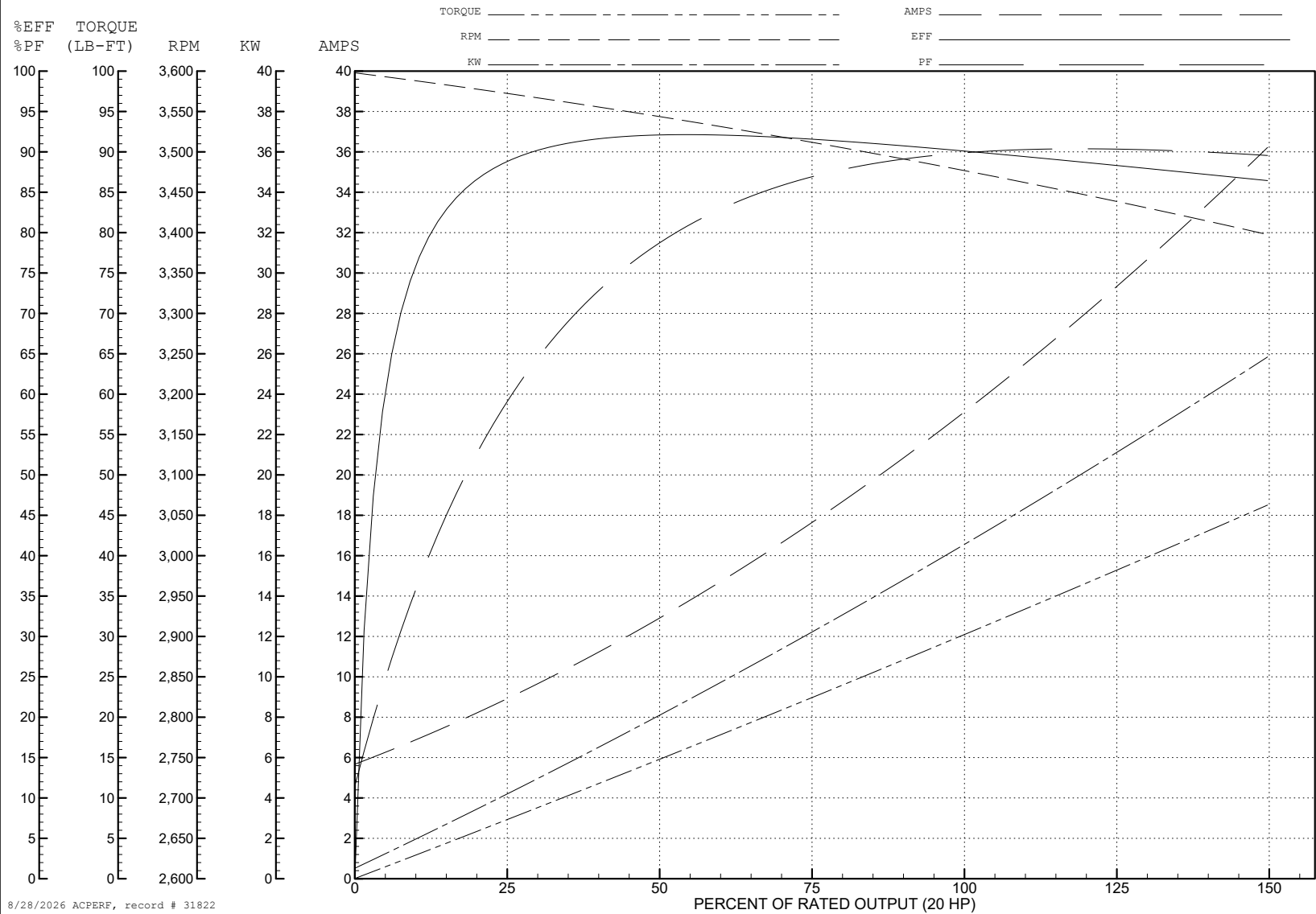
ABB Motors and Mechanical Inc.

WINDING # 07WGY016

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3480 RPM 460 V 0754M

TORQUES (LB-FT): PO=113 PU=55.2 LR=65.9 LRA=169



8/28/2026 ACPERF, record # 31822

