

ABB BALDOR RELIANCE III

Customer information packet

VM3558T-50

2HP, 1425RPM, 3PH, 50HZ, 145TC, 3532M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	440.0 V @ 50 HZ 380.0 V @ 50 HZ 220.0 V @ 50 HZ
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.000 A @ 440.0 V 3.500 A @ 380.0 V 6.000 A @ 220.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
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	AE
Type	AC
Mech. spec.	35A003
Base	
Status	NLA/A
Elec. spec.	35WGY980
Layout	35LYA003
Eff. date	03-29-2012
CD Diagram	CD0044
Poles	04
Leads	12#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	3.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.19 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1425 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

NP1372L									
CAT.NO.									
SPEC.	35A03Y980								
HP	2								
VOLTS	220/380/440								
AMP	6/3.5/3								
FRAME	145TC		HZ	50			PH	3	
SER.F.	1.15	CODE	J	DES	B	CL	F		
NEMA-NOM-EFF	81.5	PF	79						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	IP44								

AC Induction Motor Performance Data

Record # 20610

Typical performance - not guaranteed values

Winding: 35WGY980-R006			Type: 3532M		Enclosure: TEFC	
Nameplate Data			440 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		7.4 LB-FT	
Volts		220/380/440	Start Configuration		direct on line	
Full Load Amps		6/3.5/3	Breakdown Torque		29 LB-FT	
R.P.M.		1425	Pull-up Torque		26 LB-FT	
Hz	50	Phase	3	Locked-rotor Torque		27 LB-FT
NEMA Design Code		B	KVA Code		J	Starting Current
Service Factor (S.F.)		1.15	No-load Current		1.8 A	
NEMA Nom. Eff.		81.5	Power Factor		79	Line-line Res. @ 25°C
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	
					Locked-rotor Power Factor	
					Rotor inertia	

Load Characteristics 440 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	71	79	85	87	83
Efficiency	73.7	81.5	82.9	82.3	80.5	77.9	81.2
Speed	1493	1474	1454	1431	1406	1377	1416
Line amperes	1.9	2.2	2.6	3.1	3.7	4.4	3.5

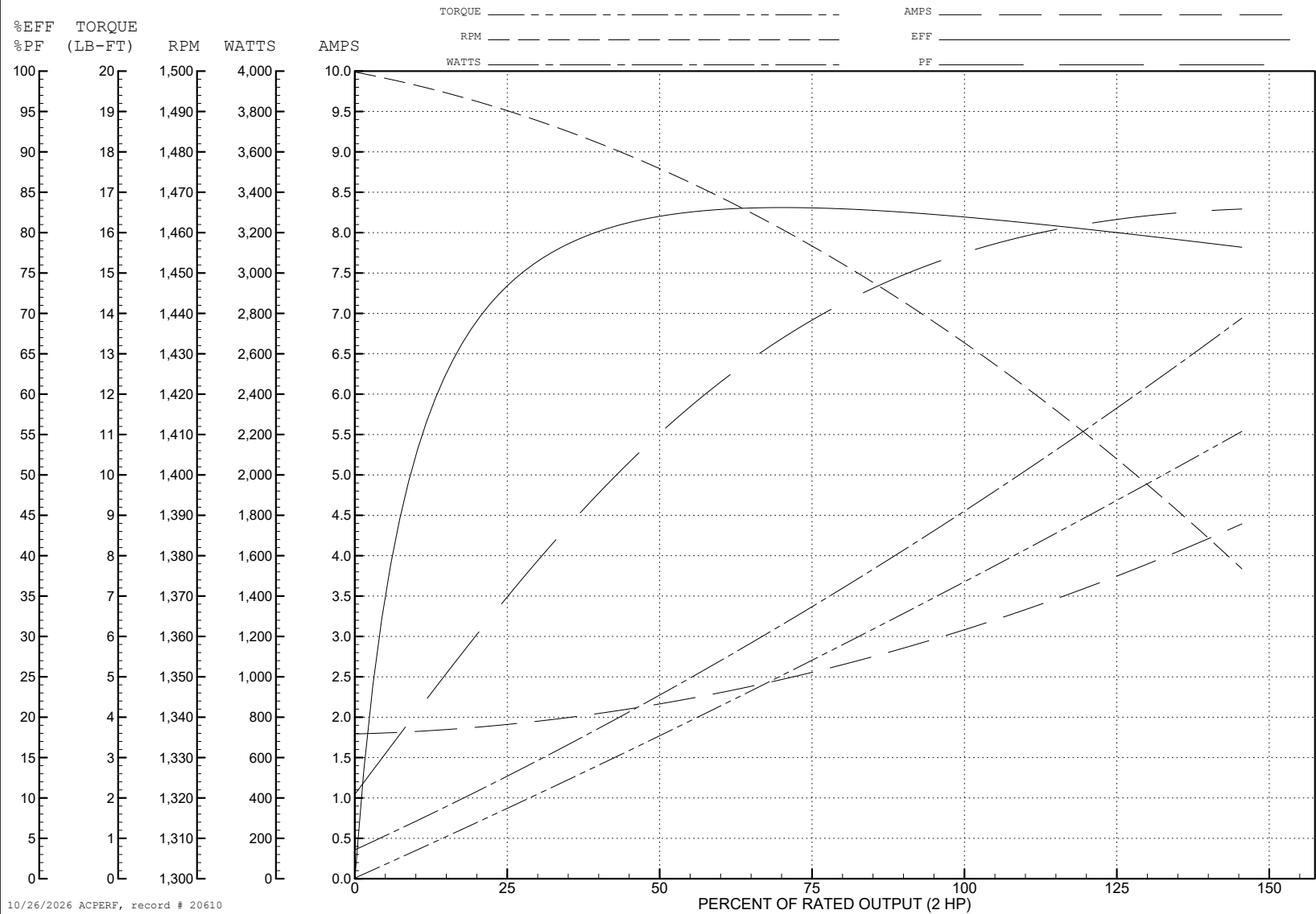
ABB Motors and Mechanical Inc.

WINDING # 35WGY980

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 1425 RPM 440 V 3532M

TORQUES (LB-FT) : PO=29 PU=26 LR=27 LRA=23



10/26/2026 ACPERF, record # 20610

