

ABB BALDOR RELIANCE III

Customer information packet

VM3559X

3HP, 3450RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.100 A @ 208.0 V 7.600 A @ 230.0 V 3.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AR
Type	AC
Mech. spec.	35A013
Base	
Status	PRD/A
Elec. spec.	35WGT123
Layout	35LYA013
Eff. date	09-21-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-21-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	3.8 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	3528M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.23 IN
Power Factor	89
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	0.625 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.	VM3559X								
SPEC.	35A13T123								
HP	3								
VOLTS	208-230/460								
AMP	8.1-7.6/3.8								
RPM	3450								
FRAME	56C		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CLASS	F		
NEMA-NOM-EFF	82.5	PF	89						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	NOT FOR USE IN USA								

AC Induction Motor Performance Data

Record # 16432

Typical performance - not guaranteed values

Winding: 35WGT123-R001			Type: 3528M		Enclosure: TEFC		
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		8.1-7.6/3.8	Breakdown Torque		19.7 LB-FT		
R.P.M.		3450	Pull-up Torque		13.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		17.5 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32.9 A
Service Factor (S.F.)		1.15		No-load Current		1.4 A	
NEMA Nom. Eff.		82.5	Power Factor	89	Line-line Res. @ 25°C		5.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps				Temp. Rise @ S.F. Load		82°C	
				Locked-rotor Power Factor		49	
				Rotor inertia		0.0774 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	74	83	87	88	88	88
Efficiency	76	83	84.3	84	82.7	80.6	83.2
Speed	3559	3525	3490	3452	3409	3358	3426
Line amperes	1.7	2.3	3	3.8	4.7	5.7	4.3

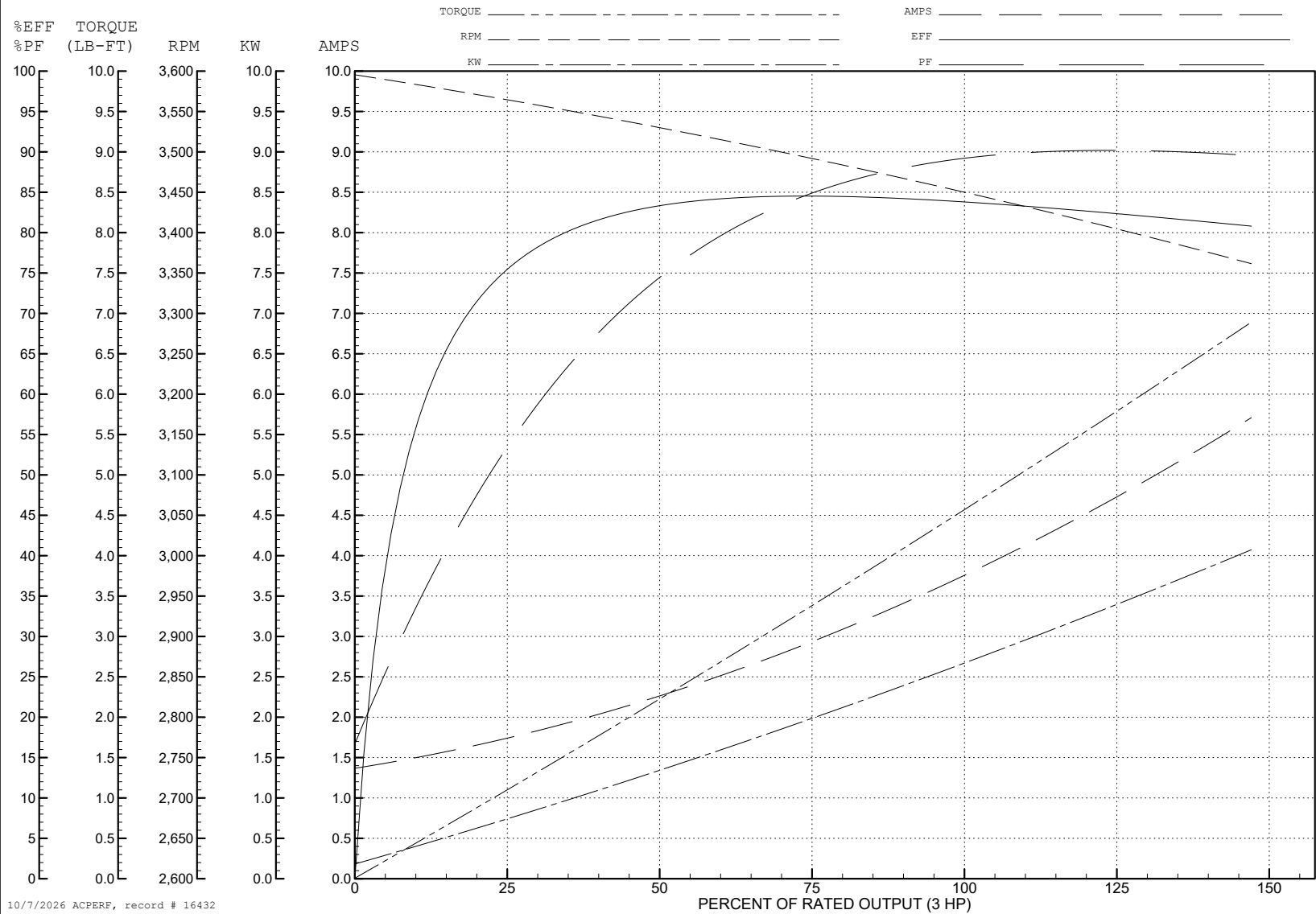
ABB Motors and Mechanical Inc.

WINDING # 35WGT123

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3528M

TORQUES (LB-FT): PO=19.7 PU=13.1 LR=17.5 LRA=32.9



AC Induction Motor Performance Data

Record # 20988

Typical performance - not guaranteed values

Winding: 35WGT123-R004			Type: 3528M		Enclosure: TEFC			
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		8.1-7.6/3.8	Breakdown Torque		19.7 LB-FT			
R.P.M.		3450	Pull-up Torque		13.1 LB-FT			
Hz		60	Phase		3	Locked-rotor Torque	17.5 LB-FT	
NEMA Design Code		B	KVA Code		K	Starting Current		32.9 A
Service Factor (S.F.)		1.15		No-load Current		1.4 A		
NEMA Nom. Eff.		82.5	Power Factor		89	Line-line Res. @ 25°C		5.1 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		68°C
S.F. Amps						Temp. Rise @ S.F. Load		82°C
						Locked-rotor Power Factor		49
						Rotor inertia		0.0774 LB-FT2

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Speed	3559	3525	3490	3452	3409	3358	3426
Line amperes	1.7	2.3	3	3.8	4.7	5.7	4.3

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