

ABB BALDOR RELIANCE III

Customer information packet

EFM3559T-G

3HP, 3450RPM, 3PH, 60HZ, 145T, 3532M, TEFC, F2

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
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
Agency Approvals	CSA EEV NEMA PREMIUM 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	7.200 A @ 230.0 V 7.900 A @ 208.0 V 3.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	35E4561
Base	
Status	PRD/A
Elec. spec.	35WGQ060
Layout	35LYE4561
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-28-2023

High Voltage Full Load Amps	3.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	14.16 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	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

NP3441LUA											
CAT.NO.		EFM3559T-G									
SPEC		35E4561Q060G2									
HP		3									
VOLTS		230/460									
AMPS		7.2/3.6									
RPM		3450									
FRAME		145T		HZ		60		PH		3	
SF		1.15		CODE		L		DES		B CLASS H	
NEMA NOM. EFF		86.5		PF		92					
RATING		40C AMB-CONT									
CC		010A									
ENCL		TEFC		SER							
DE		6205		ODE		6203					
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
50HZ 3HP 190/380V 8.8/4.4A										SF1.0	

AC Induction Motor Performance Data

Record # 53134

Typical performance - not guaranteed values

Winding: 35WGQ060-R024			Type: 3532M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		4.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		7.2/3.6	Breakdown Torque		18 LB-FT		
R.P.M.		3450	Pull-up Torque		11 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		16 LB-FT		
NEMA Design Code		B	KVA Code		L	Starting Current	33 A
Service Factor (S.F.)		1.15	No-load Current		1.2 A		
NEMA Nom. Eff.		86.5	Power Factor		92	Line-line Res. @ 25°C	4.7 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		61°C
S.F. Amps					Temp. Rise @ S.F. Load		73°C
					Locked-rotor Power Factor		47.1
					Rotor inertia		0.0885 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	77	85	88	89	90	89
Efficiency	84.1	87.9	88.4	87.2	85.7	83.5	86.3
Speed	3562	3531	3498	3462	3421	3375	3437
Line amperes	1.5	2.1	2.8	3.6	4.5	5.4	4.14

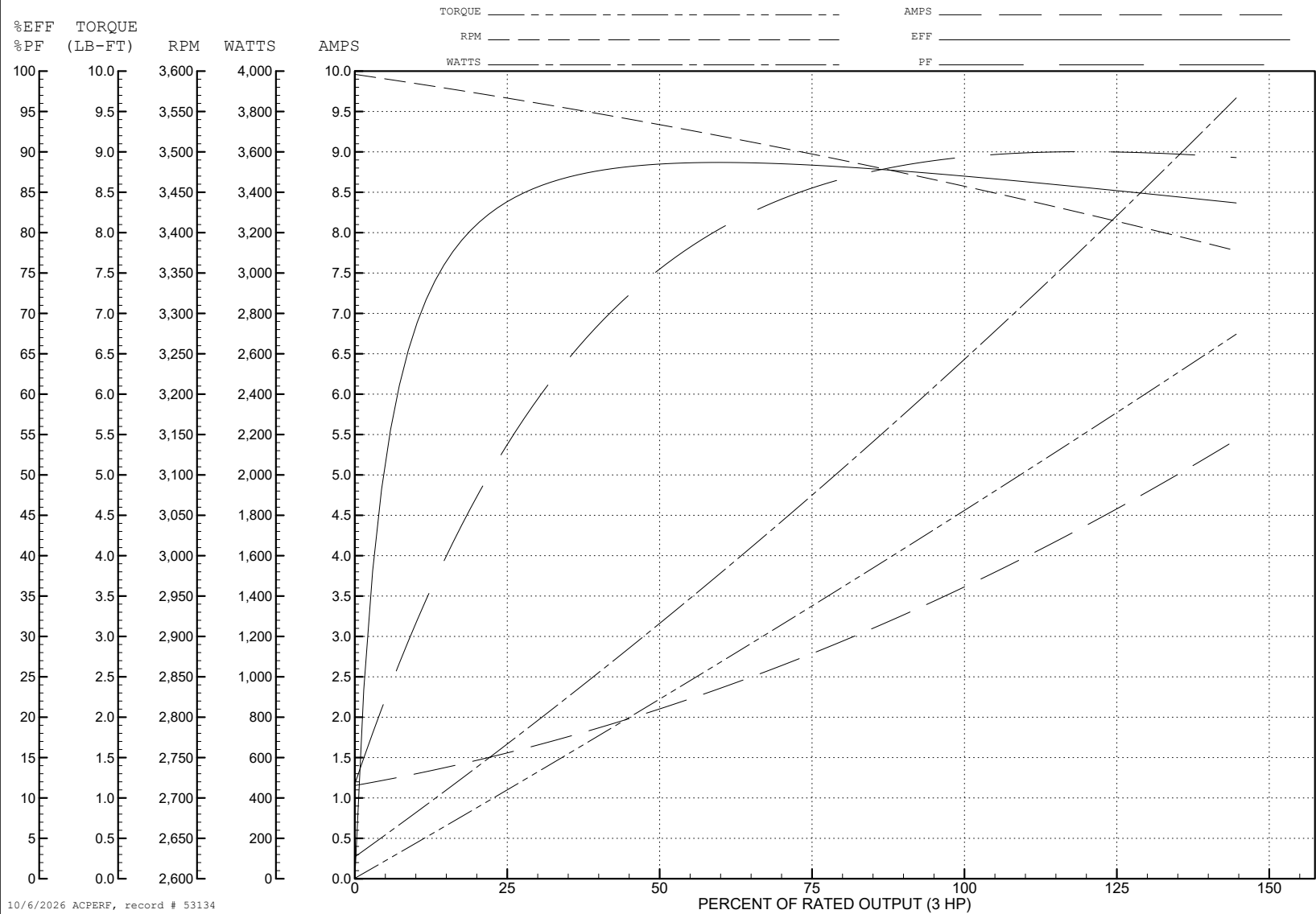
ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

TORQUES (LB-FT): PO=18 PU=11 LR=16 LRA=33



REV. DESC: REMOVE GREASE FITTING CALLOUT FROM DRW			
REV: C	VERSION: 03	REVISED: 02:48:32 01/23/2024	TDR: 00000122429
MODEL NO. 35LYE4561			REF: -
BY: USALLIN3			

HOR 143-5T TEFC 35M F2 W/1.09 LEAD HOLE, AEGIS INT SHAFT GND
SH 1 of 1

