



Customer information packet

XM14142T

1//.75HP, 1760//1475RPM, 3PH, 60//50HZ, 143T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	143T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 50 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.3
Current @ Voltage	3.260 A @ 230.0 V 3.200 A @ 208.0 V 3.080 A @ 190.0 V 1.630 A @ 460.0 V 1.540 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part detail

Revision	B
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYQ558
Eff. date	06-09-2023
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	01-10-2022

Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.34 IN
Power Factor	67
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm
	1760 rpm

Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	35Q558G004G1					INV.TYPE		PWM			
CAT.NO.	XM14142T					C HP FR	60	C HP TO	90		
HP	1//.75					CT HZ FROM	1.3		CT HZ TO	60	
VOLTS	230/460//190/380					VT HZ FROM	1.3		VT HZ TO	60	
AMPS	3.26/1.63//3.08/1.54				MAG CUR	2.16/1.08					
RPM	1760//1475				MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.	85.5				
SER.F.	1.00	DES	B	SL HZ	1.3	WK2	0.144				
FRAME	143T	RATING		40C AMB-CONT							
	55C AMB AT 1.00 SF SINEWAVE										
	NEMA MG-1 PART 5, IP54				1.15 SF SINEWAVE						

AC Induction Motor Performance Data

Record # 100119

Typical performance - not guaranteed values

Winding: 35WGG004-R037		Type: 3520M	Enclosure: XPFC		
Nameplate Data		460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)	1//.75	Full Load Torque	2.97 LB-FT		
Volts	230/460//190/380	Start Configuration	direct on line		
Full Load Amps	3.26/1.63//3.08/1.54	Breakdown Torque	13.68 LB-FT		
R.P.M.	1760//1475	Pull-up Torque	7.85 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	9.01 LB-FT
NEMA Design Code	B	KVA Code	N	Starting Current	14.13 A
Service Factor (S.F.)			1	No-load Current	1.08 A
NEMA Nom. Eff.	85.5	Power Factor	67	Line-line Res. @ 25°C	16.9 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load		24°C
				Locked-rotor Power Factor	61.5
				Rotor inertia	0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	47	60	69	76	79
Efficiency	72.1	81.7	84.7	85.7	85.5	84.7
Speed	1791	1784	1776	1768	1759	1750
Line amperes	1.11	1.22	1.38	1.59	1.82	2.09

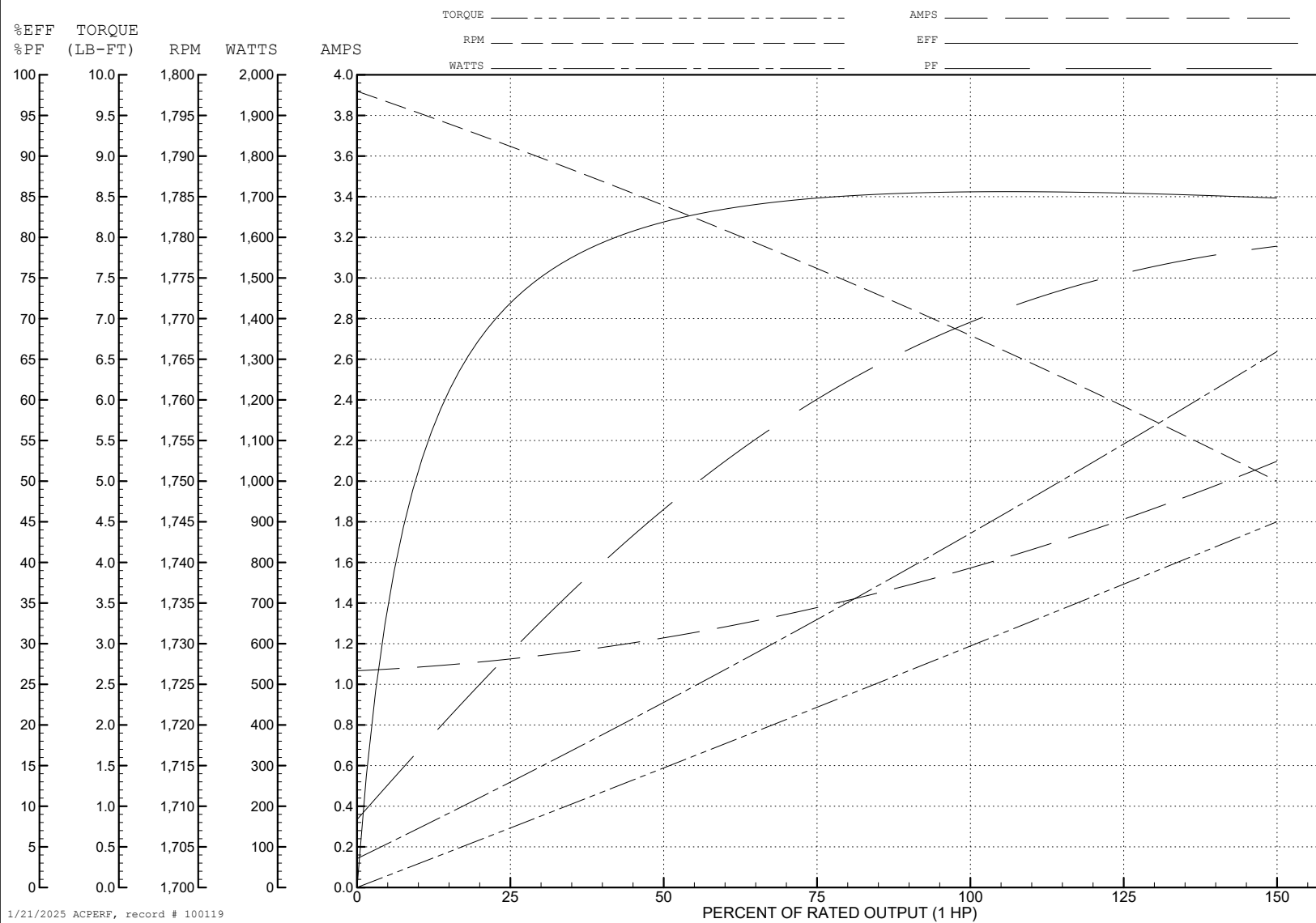
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WINDING # 35WGG004

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1768 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13



AC Induction Motor Performance Data

Record # 100120

Typical performance - not guaranteed values

Winding: 35WGG004-R037			Type: 3520M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		1//.75		Full Load Torque		2.68 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		3.26/1.63//3.08/1.54		Breakdown Torque		12.31 LB-FT		
R.P.M.		1760//1475		Pull-up Torque		7.45 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		8.55 LB-FT		
NEMA Design Code		B		KVA Code	N	Starting Current	13.12 A	
Service Factor (S.F.)		1		No-load Current			1.06 A	
NEMA Nom. Eff.		85.5	Power Factor	67	Line-line Res. @ 25°C			16.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			22°C	
				Locked-rotor Power Factor			67.1	
				Rotor inertia			0.144 lb-ft²	

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	46	58	67	74	79
Efficiency	68.3	79	82.7	84	83.7	83.2
Speed	1492	1486	1479	1471	1463	1455
Line amperes	1.08	1.18	1.32	1.5	1.71	1.95

ABB Motors and Mechanical Inc.

WINDING # 35WGG004

0.75 HP 3 PH 50 HZ 1471 RPM 380 V 3520M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=12.31 PU=7.45 LR=8.55 LRA=13.12

