



Customer information packet

CXM050742

0.75//0.5HP, 1765//1470RPM, 3PH, 60//50HZ, 5

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
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	.500 HP @ 50 HZ .750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 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	6
Current @ Voltage	2.280 A @ 230.0 V 2.400 A @ 208.0 V 2.000 A @ 190.0 V 1.140 A @ 460.0 V 1.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYE2098
Eff. date	03-08-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.30 IN
Power Factor	74
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1765 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

NP0887XPSL											
NO.						CC					
S/N						TEMP CODE	T3C				
SPEC.	35-0000-1371					INV.TYPE	PWM				
CAT.NO.	CXM050742					C HP FR	60	C HP TO	90		
HP	.75//0.5					CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60		
AMPS	2.4/1.2//2.2/1.1				MAG CUR	1.7/0.85					
RPM	1765//1470				MX RPM						
HZ	60//50	PH	3	CL	F	NOM.EFF.	82.5				
SER.F.	1.00	DES	B	SL HZ		WK2	0.101				
FRAME	56C	RATING	40C AMB-CONT								

AC Induction Motor Performance Data

Record # 89842

Typical performance - not guaranteed values

Winding: 35WGG069-R027			Type: 3514M		Enclosure: XPFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75//.5	Full Load Torque		2.24 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		2.42/1.21//2.16/1.08	Breakdown Torque		8 LB-FT		
R.P.M.		1765//1470	Pull-up Torque		4.4 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		5.1 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		8.4 A
Service Factor (S.F.)			1	No-load Current		0.85 A	
NEMA Nom. Eff.		82.5	Power Factor	74	Line-line Res. @ 25°C		30.3 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		25°C
					Locked-rotor Power Factor		66.8
					Rotor inertia		0.101 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	48	61	70	77	81
Efficiency	68.4	79.2	82.1	82.9	82.4	81.1
Speed	1791	1783	1775	1766	1757	1745
Line amperes	0.87	0.95	1.06	1.21	1.4	1.61

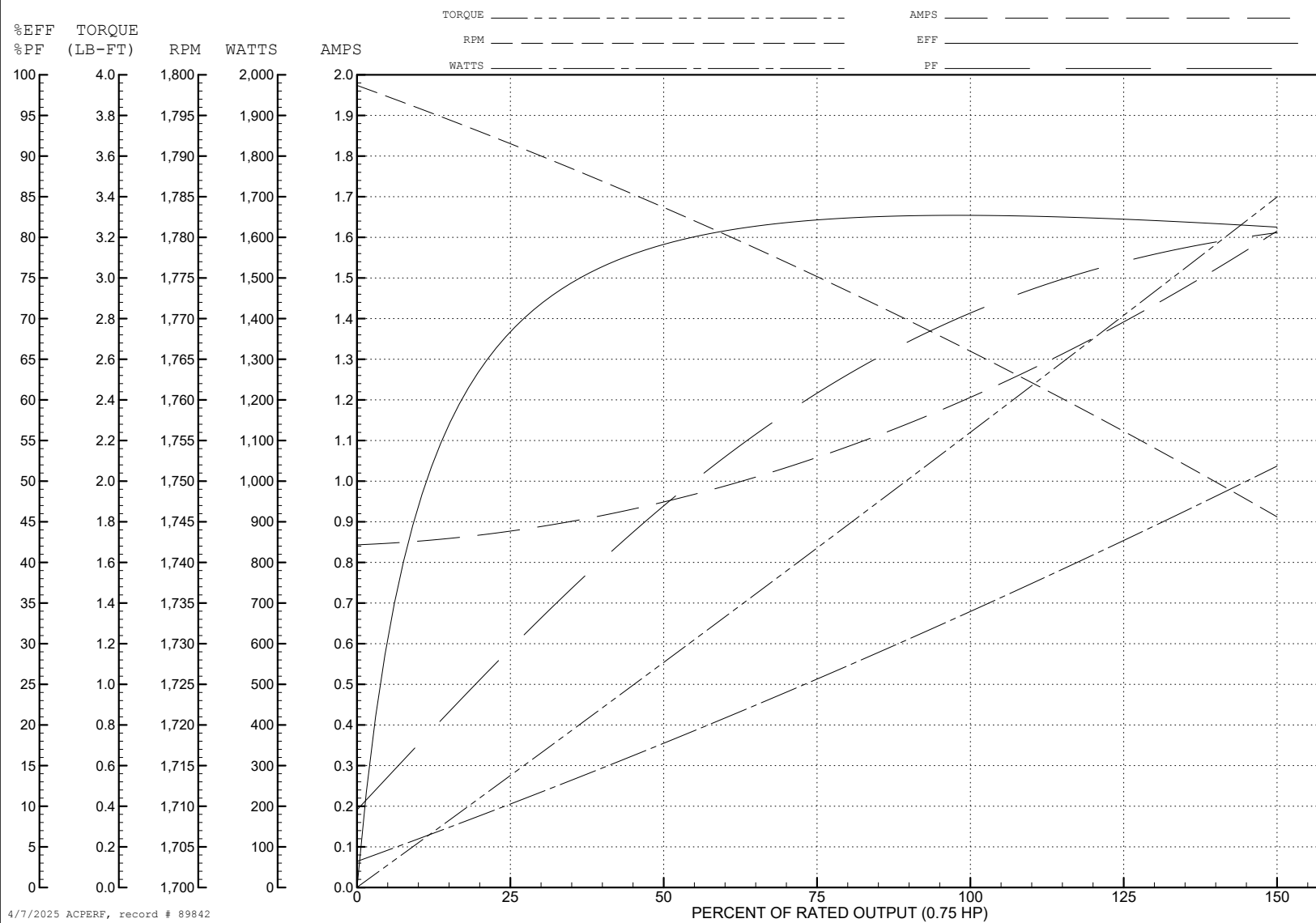
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WINDING # 35WGG069

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1766 RPM 460 V 3514M

TORQUES (LB-FT) : PO=8 PU=4.4 LR=5.1 LRA=8.4



AC Induction Motor Performance Data

Record # 89843

Typical performance - not guaranteed values

Winding: 35WGG069-R027			Type: 3514M	Enclosure: XPFC		
Nameplate Data			380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)	.75//.5		Full Load Torque	1.79 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	2.42/1.21//2.16/1.08		Breakdown Torque	7.1 LB-FT		
R.P.M.	1765//1470		Pull-up Torque	4.1 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	4.8 LB-FT	
NEMA Design Code	B		KVA Code	K	Starting Current	7.7 A
Service Factor (S.F.)	1		No-load Current			0.83 A
NEMA Nom. Eff.	82.5	Power Factor	74	Line-line Res. @ 25°C	30.3 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load			21°C
			Locked-rotor Power Factor			72.2
			Rotor inertia			0.101 lb-ft²

Load Characteristics 380 V, 50 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	43	56	66	73	78
Efficiency	63.5	75.7	79.7	81.1	81.1	80.2
Speed	1492	1486	1480	1472	1465	1456
Line amperes	0.84	0.89	0.97	1.07	1.21	1.37

ABB Motors and Mechanical Inc.

WINDING # 35WGG069

Typical performance - not guaranteed values.

0.5 HP 3 PH 50 HZ 1472 RPM 380 V 3514M

TORQUES (LB-FT): PO=7.1 PU=4.1 LR=4.8 LRA=7.7

