



Customer information packet

EGDM3218T

5HP, 1750RPM, 3PH, 60HZ, 184TZ, 3640M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	184TZ
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA 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	14.000 A @ 208.0 V 6.600 A @ 460.0 V 13.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	F
Type	AC
Mech. spec.	36Q485
Base	
Status	PRD/A
Elec. spec.	36WGS270
Layout	36LYQ485
Eff. date	11-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-04-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.50 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP3126L											
CAT.NO.	EGDM3218T										
SPEC.	36Q485S270G1										
HP	5										
VOLTS	208-230/460										
AMP	14-13.2/6.6										
RPM	1750										
FRAME	184TZ		HZ	60				PH	3		
SER.F.	1.15		CODE	J	DES	B		CL	F		
NEMA-NOM-EFF	89.5		PF	80							
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6205							
ENCL	OPSB		SN								
	SFA 16.5-14.9/7.5										

AC Induction Motor Performance Data

Record # 31553

Typical performance - not guaranteed values

Winding: 36WGS270-R001			Type: 3640M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		15.05 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		14-13.2/6.6	Breakdown Torque		44.8 LB-FT		
R.P.M.		1750	Pull-up Torque		25.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		30.1 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		44.8 A
Service Factor (S.F.)		1.15	No-load Current		2.97 A		
NEMA Nom. Eff.		89.5	Power Factor	80	Line-line Res. @ 25°C		2.632 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps					Temp. Rise @ S.F. Load		56°C
					Locked-rotor Power Factor		41
					Rotor inertia		0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	85.4	89.7	90.2	89.5	88.2	86.4	88.7
Speed	1789.2	1778.5	1766.9	1753.8	1739.5	1722.1	1745
Line amperes	3.33	4.14	5.26	6.59	8.05	9.68	7.47

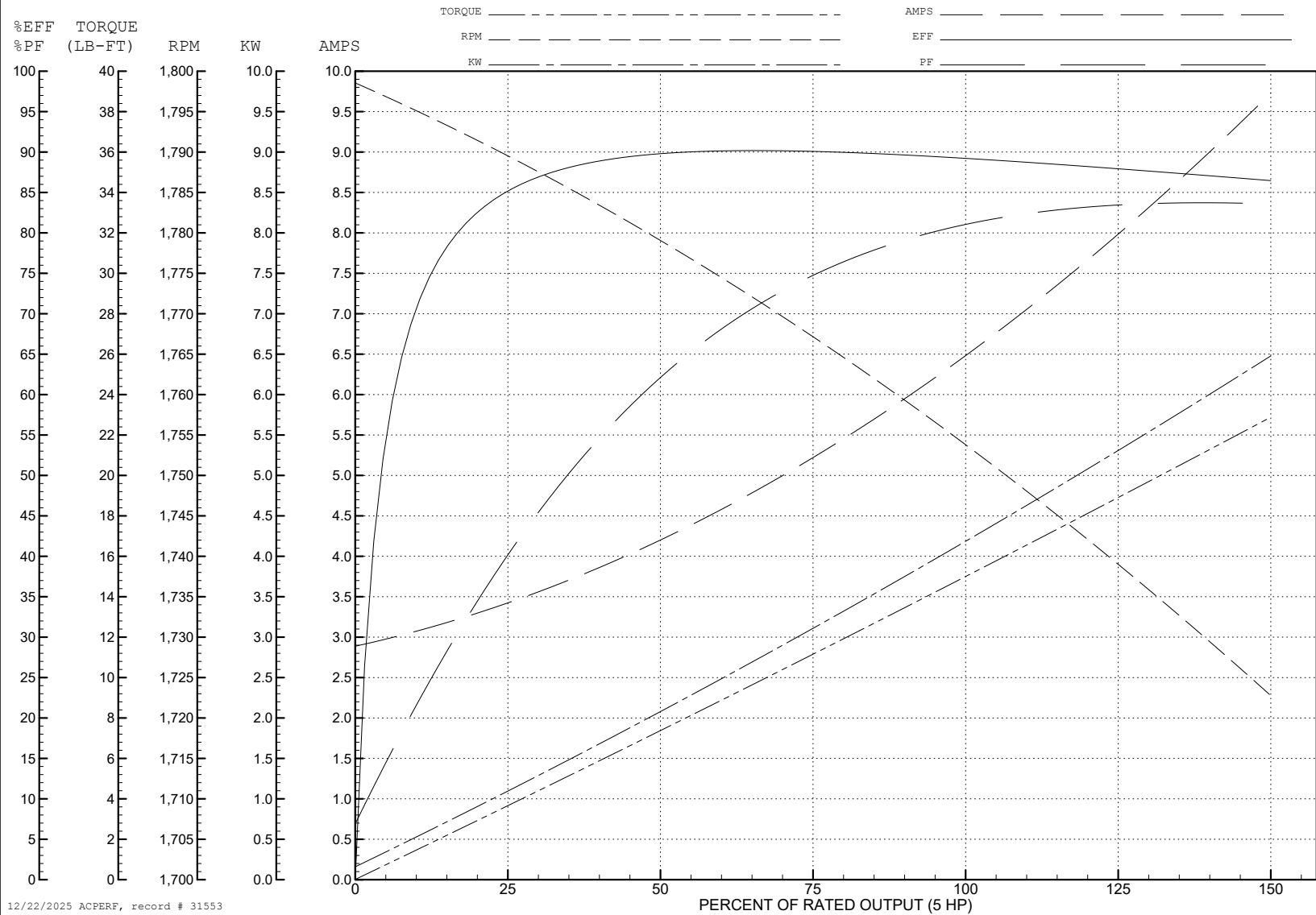
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WINDING # 36WGS270

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

TORQUES (LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=44.8



AC Induction Motor Performance Data

Record # 38235

Typical performance - not guaranteed values

Winding: 36WGS270-R001			Type: 3640M		Enclosure: OPSB			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		5	Full Load Torque		15 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		14-13.2/6.6	Breakdown Torque		46.6 LB-FT			
R.P.M.		1750	Pull-up Torque		25.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		31.2 LB-FT		
NEMA Design Code		B	KVA Code	J	Starting Current		45.2 A	
Service Factor (S.F.)		1.15		No-load Current		2.96 A		
NEMA Nom. Eff.		89.5	Power Factor		80	Line-line Res. @ 25°C		2.6272 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		45°C
S.F. Amps						Temp. Rise @ S.F. Load		56°C
						Locked-rotor Power Factor		41
						Rotor inertia		0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	86.1	90.2	90.5	89.7	88.3	86.6	88.9
Speed	1788.8	1778.1	1766	1752.7	1737.8	1721.1	1744
Line amperes	3.33	4.11	5.22	6.52	8.02	9.62	7.42

ABB Motors and Mechanical Inc.

WINDING # 36WGS270

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

TORQUES (LB-FT): PO=46.6 PU=25.5 LR=31.2 LRA=45.2

