



Customer information packet

CEM3218T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	184TC
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM 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	T
Type	AC
Mech. spec.	36B102
Base	
Status	PRD/A
Elec. spec.	36WGS270
Layout	36LYB102
Eff. date	12-16-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-04-2010

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	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	16.50 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3553LUA

CAT.NO.	CEM3218T										
SPEC.	36B102S270G1										
HP	5										
VOLTS	230/460										
AMPS	13.2/6.6										
RPM	1750										
FRAME	184TC			HZ		60		PH		3	
SF	1.15		CODE		J	DES		B	CLASS		F
NEMA NOM. EFF	89.5		PF		80						
RATING	40C AMB-CONT										
CC	010A										
ENCL	OPSB		SN								
DE	6206			ODE		6205					
VPWM INVERTER READY				SFA 15.0/7.5							
CT30-60(2:1) VT3-60(20:1)											
USABLE AT	50HZ 5HP 190/380V 15.6/7.8A										SF1.0

AC Induction Motor Performance Data

Record # 53360

Typical performance - not guaranteed values

Winding: 36WGS270-R004			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		230/460	Start Configuration		direct on line			
Full Load Amps		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

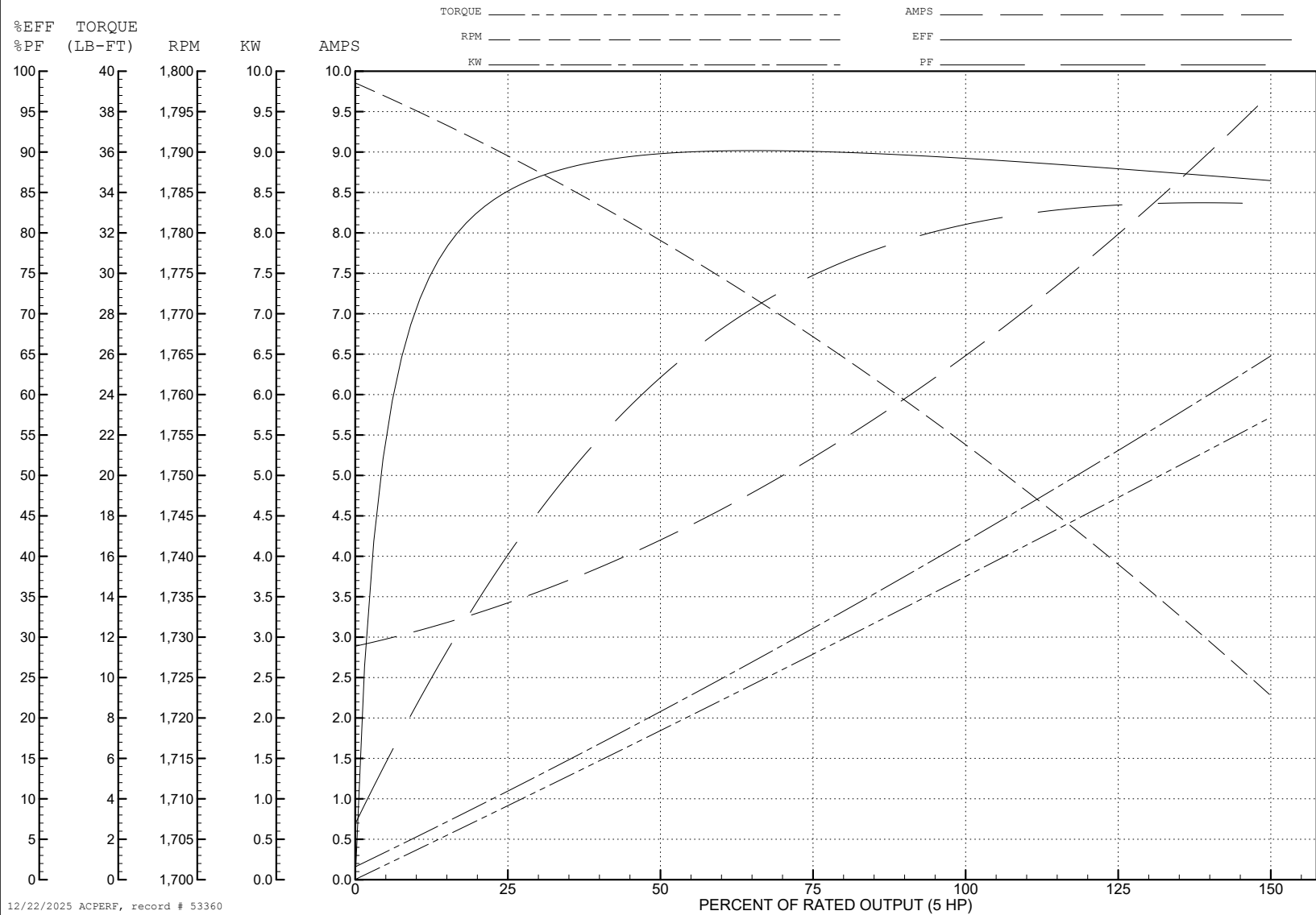
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WINDING # 36WGS270

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 # 86108

Typical performance - not guaranteed values

Winding: 36WGS270-R004			Type: 3640M		Enclosure: OPSB			
Nameplate Data			230 V, 60 Hz: Low Voltage Connection					
Rated Output (HP)		5	Full Load Torque		15.05 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		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		89.6 A	
Service Factor (S.F.)		1.15		No-load Current		5.94 A		
NEMA Nom. Eff.		89.5	Power Factor		80	Line-line Res. @ 25°C		0.656 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps						Temp. Rise @ S.F. Load		54°C
						Locked-rotor Power Factor		40.8
						Rotor inertia		0.372 lb-ft²

Load Characteristics 230 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	84.3	89.2	89.7	89.6	88.2	86.2	88.8
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	6.66	8.28	10.52	13.18	16.1	19.36	14.9

ABB Motors and Mechanical Inc.

WINDING # 36WGS270

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 230 V 3640M

TORQUES (LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=89.6

