



Product Information Packet

CM3539

.5HP,1140RPM,3PH,60HZ,56C,3418M,TEFC,F1

Part Detail							
Revision:	X	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WG5884	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	34A062	Layout:	34LYA062	Poles:	06	Created Date:	
Base:	RG	Eff. Date:	10-30-2018	Leads:	9#18		

Specs			
Catalog Number:	CM3539	Insulation Class:	B
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56C	IP Rating:	NONE
Frame Material:	Steel	KVA Code:	J
Motor Letter Type:	Three Phase	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3418M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	55
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT

Current @ Voltage:	1.200 A @ 460.0 V	Shaft Extension Location:	Pulley End
	2.400 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	2.700 A @ 208.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	CM3539										
SPEC.	34A62-5884										
HP	.5										
VOLTS	230/460										
AMP	2.4/1.2										
RPM	1140										
FRAME	56C				HZ	60				PH	3
SER.F.	1.25		CODE	J	DES	B		CLASS	B		
NEMA-NOM-EFF	72			PF	55						
RATING	40C AMB-CONT										
CC				USABLE AT 208V							2.7
DE	6203			ODE	6203						
ENCL	TEFC		SN								
	SFA 2.6/1.3										

AC Induction Motor Performance Data

Record # 23697

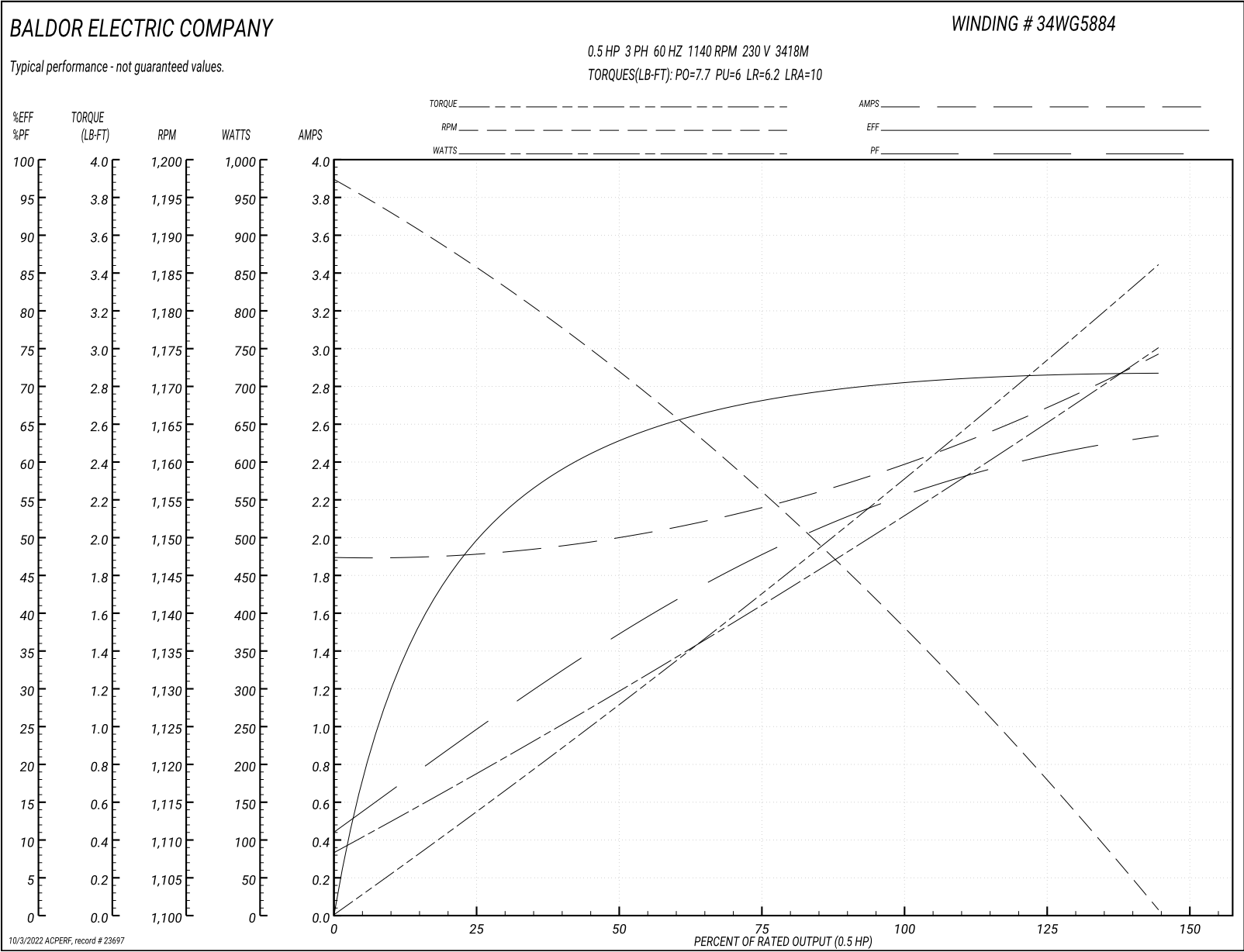
Typical performance - not guaranteed values

Winding: 34WG5884-R001			Type: 3418M		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		2.3 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.4/1.2	Breakdown Torque		7.7 LB-FT		
R.P.M.		1140	Pull-up Torque		6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		6.2 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		10 A
Service Factor (S.F.)		1.25	No-load Current		1.9 A		
NEMA Nom. Eff.		72	Power Factor	55	Line-line Res. @ 25°C		9.51 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
S.F. Amps		2.6/1.3	Temp. Rise @ S.F. Load		77°C		
			Locked-rotor Power Factor		63		
			Rotor inertia		0.0428 LB-FT2		

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	38	48	54	61	64	61
Efficiency	47.9	63.1	67.3	72	72.2	71	72.2
Speed	1185	1170	1155	1140	1120	1100	1120
Line amperes	1.9	2	2.2	2.4	2.6	3	2.6

Performance Graph at 230V, 60Hz, 0.5HP Typical performance - Not guaranteed values



10/3/2022 ACPERF, record # 23697

AC Induction Motor Performance Data

Record # 6835

Typical performance - not guaranteed values

Winding: 34WG5884-R001				Type: 3418M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5		Full Load Torque		2.3 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		2.4/1.2		Breakdown Torque		7.7 LB-FT		
R.P.M.		1140		Pull-up Torque		6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		6.2 LB-FT		
NEMA Design Code		B		KVA Code	J		Starting Current	5 A
Service Factor (S.F.)		1.25		No-load Current		0.95 A		
NEMA Nom. Eff.		72	Power Factor	55		Line-line Res. @ 25°C		39.6 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C		
S.F. Amps		2.6/1.3		Temp. Rise @ S.F. Load		77°C		

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	20	34	45	55	62	68	62
Efficiency	48	63	67	72	72	71	72
Speed	1185	1170	1155	1140	1120	1100	1120
Line amperes	0.95	1	1.1	1.2	1.3	1.5	1.3

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values

